

SYSTEM SUPPORT DIRECTIVE

ASR9

SDR-ASR9-005

6310

**System
Documentation
Release**

**UPDATE TO STR-ASR9-004A
ASR-9 VARIABLE SITE
PARAMETERS AND
PROGRAMMABLE ALARM
THRESHOLD BASELINE**

Highlights

07/12/2004

1. PURPOSE. This System Documentation Release (SDR) provides an updated list of Airport Surveillance Radar (ASR-9) baseline Variable Site Parameters (VSP), baseline values for the Programmable Alarm Thresholds (PAT) and baseline values for the Programmable Alarm Filters (PAF). SDR-ASR9-005 supercedes the baseline information previously released in STR-ASR9-004A. This implements Configuration Control Decision (CCD) No. N22344, Modification of ASR-9 for WSP Interface.

This document covers baseline site parameters for all Electronic Equipment Modification/System Support Modification (EEM/SSM) releases up to and including the release of SSM-ASR9-012.

This document is being released to provide guidance to field personnel on ASR-9 VSPs/PATs/PAFs change updates. These parameters can be categorized as site and factory parameters.

a. Site Parameters – The site parameters (VSP/PAT/PAF) are determined at the time of site optimization. These parameters have been labeled in Appendix 1, Target Channel Variable Site Parameters; Appendix 2, Weather Channel Variable Site Parameters; Appendix 3, Surveillance Communication Interface Processor Variable Site Parameters; Appendix 4, Target Channel Programmable Alarms Thresholds/Programmable Alarm Filters; and Appendix 5, Weather Channel Programmable Alarm Thresholds and Programmable Alarm Filters with the mnemonic OPTimized (OPT) or a range of values that has been provided. Those items labeled with OPT have been determined to be strictly site optimization dependent. Those items with a range of values, which are also site optimization dependent, have been determined, through experience, to lie within a predetermined range. This range has been provided. The values of these parameters must lie within the given range. Any deviations from the initial values of the site parameters in the attached appendixes should be coordinated and acknowledged at the regional office level. Any deviations outside the allowable range of values for the site parameters require a National Change Proposal (NCP) action. An initial value has been provided for the variable parameters in parenthesis to the left of the OPT mnemonic or the range of values, if applicable.

b. Factory Parameters – The factory parameters are the same values for all facilities. In the attached appendixes single values are provided for these parameters. Any deviations from the values given for the factory parameters require an NCP action.

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c. WSP Site Parameters –ASR-9 sites with Weather Systems Processor (WSP) equipment have unique parameters (VSP/PAT/PAF) settings. These parameters have been labeled in Appendix 1, Target Channel Variable Site Parameters; Appendix 2, Weather Channel Variable Site Parameters; Appendix 3, Surveillance Communication Interface Processor Variable Site Parameters; Appendix 4, Target Channel Programmable Alarms Thresholds/Programmable Alarm Filters; and Appendix 5, Weather Channel Programmable Alarm Thresholds and Programmable Alarm Filters with an asterisk (*) to the left of the parameter. The following table includes those ASR-9 sites that are scheduled to receive the WSP Modification (SSM-ASR9-012).

WSP Location	State	LOCID	Region
FAA Academy	OK		
FAA Tech Center	NJ		
Albuquerque	NM	ABQ	ASW
Austin-Bergstrom	TX	BSM	ASW
Norfolk/Virginia Beach	VA	ORF	AEA
Program Support Facility - AOS-250	OK		
Portland	OR	PDX	ANM
Jacksonville	FL	JAX	ASO
Honolulu	HI	HNL	AWP
Buffalo/Niagara Falls	NY	BUF	AEA
Huntsville/Decatur	AL	HSV	ASO
Grand Rapids	MI	GRR	AGL
San Antonio	TX	SAT	ASW
Syracuse	NY	SYR	AEA
Knoxville	TN	TYS	ASO
Islip/Long Island	NY	ISP	AEA
Sarasota/Bradenton	FL	SRQ	ASO
Seattle	WA	SEA	ANM
El Paso-Biggs	TX	ELP	ASW
Ontario	CA	ONT	AWP
White Plains	NY	HPN	AEA
Madison	WI	MSN	AGL
Los Angeles (South)	CA	LAX	AWP
Birmingham	AL	BHM	ASO
Richmond	VA	RIC	AEA
Greensboro/High Point	NC	GSO	ASO
Harrisburg/Middleton	PA	MDT	AEA
Des Moines	IA	DSM	ACE
Lubbock – Reese	TX	LBB	ASW
Ft. Wayne	IN	FWA	AGL
Charleston	SC	CHS	ASO
Tucson	AZ	TUS	AWP
Windsor Locks (Hartford)	CT	BDL	ANE
Albany	NY	ALB	AEA
Rochester	NY	ROC	AEA
Cedar Rapids	IA	CID	ACE
Toledo	OH	TOL	AGL

2. DISTRIBUTION.

- a. This SDR is distributed to selected offices and services within Washington headquarters, the William J. Hughes Technical Center, the Mike Monroney Aeronautical Center, regional Airway Facilities divisions, and Airway Facilities field offices having the following facilities/equipment: ASR-9.

b. An electronic version and distribution report of this SDR are available on an Intranet site located at <http://aos-ext.amc.faa.gov/> under the "Technical Documentation" heading.

c. To obtain additional hard copies of this publication, contact Printing & Distribution Team, AMI-700B, at (405) 954-6892.

3. WITHDRAWALS/CANCELLATIONS. STR-ASR9-004A.

4. APPLICATION. The revised pages apply to all ASR-9 facilities.

5. CHANGES TO RECORDED DATA. Enter this SSD number, date, chapter, and change number on the appropriate FAA Form 6032-1, Airway Facilities Modification Record.

6. ADDRESS CHANGES. Submit facility address, copy count, and additions or deletions to Carrie Batty via email at Carrie.ctr.Batty@faa.gov.

7. RISKS. If changes are not incorporated, unauthorized configuration may degrade the efficiency of the National Airway Systems (NAS) and the ability to maintain operations.

8. STATUS ACCOUNTING. The maintenance organization does not open LEM entries for documentation releases. Providing your equipment is listed in the Facility/Service Equipment Profile (FSEP), the Maintenance Organization has opened a Log Equipment Modification (LEM) record in the Maintenance Management System (MMS).

a. Upon completion of this modification, you are required to close the LEM record and change the Maintenance Action Code (MAC) to:

- (1) "G" if the modification was completed.
- (2) "W" if the modification is not applicable.

b. Verify that an "N" is in the "REP COD" field to ensure that the log entry will be upwardly reportable to the national database for National MOD Tracking.

c. The data entry record is to be entered into the LEM as follows:

MMS FIELD NAME	DATA ENTRY
FAC/SERV:	Enter your facility/service type
LOC INDENT:	Enter your site identification
SHORT NAME:	Enter the short name for this equipment from MMS
ORDER#/SYSTEM:	SDR-ASR9
CHAP/SEQ#:	005
CHG:	HW



for Richard A. Thoma
Director for Technical Operations Support

LIST OF APPENDIXES AND ATTACHMENTS

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APPENDIX 1. TARGET CHANNEL VARIABLE SITE PARAMETERS

Synchronizer VSPs	ASR-9 BASELINE	WSP SITE
11 BEAM SELECT RAG - ADJACENT WINDOWS	VALUE	VALUE
01 Start Azmth / Adjcnt Beam Sw Window #1 >> [0,255] CPI-PRs	(0)OPT	
02 Start Azmth / Adjcnt Beam Sw Window #2 >> [0,255] CPI-PRs	(32)OPT	
03 Start Azmth / Adjcnt Beam Sw Window #3 >> [0,255] CPI-PRs	(64)OPT	
04 Start Azmth / Adjcnt Beam Sw Window #4 >> [0,255] CPI-PRs	(96)OPT	
05 Start Azmth / Adjcnt Beam Sw Window #5 >> [0,255] CPI-PRs	(128)OPT	
06 Start Azmth / Adjcnt Beam Sw Window #6 >> [0,255] CPI-PRs	(160)OPT	
07 Start Azmth / Adjcnt Beam Sw Window #7 >> [0,255] CPI-PRs	(192)OPT	
08 Start Azmth / Adjcnt Beam Sw Window #8 >> [0,255] CPI-PRs	(224)OPT	
*		
* 09 Range for Adjacent Beam Sw Window #1 >> [0,60] x 16 RCs	(15)OPT	14
* 10 Range for Adjacent Beam Sw Window #2 >> [0,60] x 16 RCs	(15)OPT	14
* 11 Range for Adjacent Beam Sw Window #3 >> [0,60] x 16 RCs	(15)OPT	14
* 12 Range for Adjacent Beam Sw Window #4 >> [0,60] x 16 RCs	(15)OPT	14
* 13 Range for Adjacent Beam Sw Window #5 >> [0,60] x 16 RCs	(15)OPT	14
* 14 Range for Adjacent Beam Sw Window #6 >> [0,60] x 16 RCs	(15)OPT	14
* 15 Range for Adjacent Beam Sw Window #7 >> [0,60] x 16 RCs	(15)OPT	14
* 16 Range for Adjacent Beam Sw Window #8 >> [0,60] x 16 RCs	(15)OPT	14
12 BEAM SELECT RAG - ISOLATED WINDOWS 1 & 2	VALUE	VALUE
01 Strt Azmth / Isolated Beam Sw Window #1 >> [0,255] CPI-PRs	OPT	
02 Azm Extent / Isolated Beam Sw Window #1 >> [0,256] CPI-PRs	OPT	
03 Strt Range / Isolated Beam Sw Window #1 >> [0,60] x 16 RCs	OPT	
04 Rng Extent / Isolated Beam Sw Window #1 >> [0,60] x 16 RCs	OPT	
05 Hi/Lo Beam / Isolated Beam Sw Window #1 >> 0=Low, 1=High	OPT	
06 Strt Azmth / Isolated Beam Sw Window #2 >> [0,255] CPI-PRs	OPT	
07 Azm Extent / Isolated Beam Sw Window #2 >> [0,256] CPI-PRs	OPT	
08 Strt Range / Isolated Beam Sw Window #2 >> [0,60] x 16 RCs	OPT	
09 Rng Extent / Isolated Beam Sw Window #2 >> [0,60] x 16 RCs	OPT	
10 Hi/Lo Beam / Isolated Beam Sw Window #2 >> 0=Low, 1=High	OPT	
11 Rx-Recovery / LO-Beam Azimuth Placement >> [0,255] CPI-PRs	OPT	
12 Rx-Recovery / HI-Beam Azimuth Placement >> [0,255] CPI-Prs	OPT	
13 BEAM SELECT RAG - ISOLATED WINDOWS 3 & 4	VALUE	VALUE
01 Strt Azmth / Isolated Beam Sw Window #3 >> [0,255] CPI-PRs	OPT	
02 Azm Extent / Isolated Beam Sw Window #3 >> [0,256] CPI-PRs	OPT	
03 Strt Range / Isolated Beam Sw Window #3 >> [0,60] x 16 RCs	OPT	
04 Rng Extent / Isolated Beam Sw Window #3 >> [0,60] x 16 RCs	OPT	
05 Hi/Lo Beam / Isolated Beam Sw Window #3 >> 0=Low, 1=High	OPT	
06 Strt Azmth / Isolated Beam Sw Window #4 >> [0,255] CPI-PRs	OPT	
07 Azm Extent / Isolated Beam Sw Window #4 >> [0,256] CPI-PRs	OPT	
08 Strt Range / Isolated Beam Sw Window #4 >> [0,60] x 16 RCs	OPT	
09 Rng Extent / Isolated Beam Sw Window #4 >> [0,60] x 16 RCs	OPT	
10 Hi/Lo Beam / Isolated Beam Sw Window #4 >> 0=Low, 1=High	OPT	
14 STRADDLE MLT DISABLE RAGs	VALUE	VALUE
01 Start Azimuth for SMLT DISABL Window #1 >> [0,255] CPI-PRs	OPT	
02 Azmuth Extent for SMLT DISABL Window #1 >> [0,256] CPI-PRs	OPT	
03 Start Range for SMLT DISABL Window #1 >> [0,60] x 16 RCs	OPT	
04 Range Extent for SMLT DISABL Window #1 >> [0,60] x 16 RCs	OPT	
05 Start Azimuth for SMLT DISABL Window #2 >> [0,255] CPI-PRs	OPT	
06 Azmuth Extent for SMLT DISABL Window #2 >> [0,256] CPI-PRs	OPT	
07 Start Range for SMLT DISABL Window #2 >> [0,60] x 16 RCs	OPT	
08 Range Extent for SMLT DISABL Window #2 >> [0,60] x 16 RCs	OPT	

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
15	LO-BEAM STC		
*	01 Lo Beam STC Reference Attenuation >> [0,99] dB	(85) OPT	82
	02 Lo Beam STC Slope -Zone 1 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	03 Lo Beam STC Slope -Zone 2 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	04 Lo Beam STC Slope -Zone 3 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	05 Lo Beam STC Slope -Zone 4 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	06 Lo Beam STC Slope -Zone 5 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	07 Lo Beam STC Slope -Zone 6 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	08 Lo Beam STC Slope -Zone 7 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	09 Lo Beam STC Slope -Zone 8 >> [0,240] x 0.1 dB/Octave	(120) OPT	
16	HI-BEAM STC		
*	01 Hi Beam STC Reference Attenuation >> [0,99] dB	(77) OPT	74
	02 Hi Beam STC Slope -Zone 1 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	03 Hi Beam STC Slope -Zone 2 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	04 Hi Beam STC Slope -Zone 3 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	05 Hi Beam STC Slope -Zone 4 >> [0,240] x 0.1 dB/Octave	(240) OPT	
	06 Hi Beam STC Slope -Zone 5 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	07 Hi Beam STC Slope -Zone 6 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	08 Hi Beam STC Slope -Zone 7 >> [0,240] x 0.1 dB/Octave	(120) OPT	
	09 Hi Beam STC Slope -Zone 8 >> [0,240] x 0.1 dB/Octave	(120) OPT	
17	SYNCHRONIZER - GENERAL		
	01 Northmark Offset Shaft Encodr 1 >> [0,4095] ACPs after ARP	OPT	
	02 Northmark Offset Shaft Encodr 2 >> [0,4095] ACPs after ARP	OPT	
	03 Modulator Discharge Relative to Pre-T0 >> [0,120] x 1/8 RC	OPT	
	04 Radar PRF Number >> [0,28] Table Index	(16 - 28)	
	05 Range Offset for STC Generation >> [12,18] 1/2 Range Cells	15	
	06 Default Range for Stability Test >> [0,7680] x 1/8 RC	(145)OPT	
	07 Default STC for Stability Test >> [0,60] dB	(0)OPT	
	08 Rx Noise Level >> [0,31] x 15/32 dB Above 1 Quantum Level	4	
	09 MDS Calibration Factor >> [-430,430] x 3/32 dB	OPT	
*	10 WSP 3dB Beam Splitter Installed >> 0=No, 1=Yes	0	1
18	SYNCHRONIZER TEST PARAMETERS		
	02 Display Trigger Relative to Pre-T0 >> [0,130] Range Cells	OPT	
	03 Beacon Pre-Trigger Relative to Pre-T0 >> [0,130] Range Cells	OPT	
	04 Spare Trigger #1 Relative to Pre-T0 >> [0,130] Range Cells	OPT	
	05 Spare Trigger #2 Relative to Pre-T0 >> [0,130] Range Cells	OPT	
19	TEST TARGET GENERATOR		
	01 Range of Target Channel RTQC >> [19,1920] 1/2 Range Cells	OPT	
	02 Attenuation for Target Channel RTQC >> [1,95] dB	25	
	03 Disable Target Channel RTQC >> 1=Disable, 0=Enable	0	
	04 Start Azimuth for Target Channel RTQC >> [0,511] CPI #	OPT	
	05 Runlength of Target Channel RTQC >> [1,4] CPIs	3	

NOTE: These parameters are scratchpad values and do not affect system performance in any capacity

DSP VSPs	ASR-9 BASELINE	WSP SITE
	VALUE	VALUE
21 FILTER #1 SELECT PARAMETERS		
01 Hvy Cltr Fltr Select/Doppler Restriction >> [1,255]x3/8 dB	96	
02 Nrml Cltr Fltr Select/Doppler Restriction >> [0,254]x3/8 dB	88	
03 Hvy Cltr Fltr Select/Magnitude Thresh. >> [81,160]x3/8 dB	133	
04 Nrml Cltr Fltr Select/Magnitude Thresh >> [80,159]x3/8 dB	125	
05 Heavy Clutter Filter Zone Size >> 0=8 RCs, 1=32 Rcs	0	
22 CLUTTER MAP		
01 Clutter Map Scan Update Interval >> Every 2**[0,4] scans	0	
02 Clutter/Residue Map Init. Boost Factor >> [0,4] x 6 dB	2	
03 Clutter/Residue Map LP/CP Boost Factor >> [0,4] x 6 dB	1	
04 Clutter/Residue Map CP/LP Boost Factor >> [0,4] x 6 dB	3	
23 THRESHOLDING 1		
01 Residue/Mean-Level Threshold >> 0=MLT, 1=Residue Map	(1) OPT	
02 Radar PFA Select >> [0,31] x 3/32 dB Threshold Increment	18	
03 Select Residue Map PFA >> [0,255] x 3/32 dB	142	
04 Clutter Map PFA Select >> [0,255] x 3/32 dB	(126) 103 to 131	
05 MLT Bottom Limit >> [0,255] x 3/16 dB	142	
06 Zero Velocity/Residue Map Bottom Limit >> [0,255] x 3/16dB	142	
24 THRESHOLDING 2		
01 ZVF Delta Threshold Increment >> [0,127] x 3/32 dB	0	
02 ZVF Overload Limit >> [8,99] ZVF Targets per CPI	(50) 32 to 99	
03 Interference Test Coefficient K >> [0,7] See Manual	3	
05 Geocensor Mode Select >> 1-Group Peak Censor, 0-Individual	1	
25 GEOGRAPHIC CENSOR THRESHOLDS		
01 Flat Threshold Filters +/- 0, +/- 1 >> [0,1023] x 3/32 dB	457	
02 Flat Threshold Filters +/- 2 >> [0,1023] x 3/32 dB	457	
03 Flat Threshold Filters +/- 3, +/- 4 >> [0,1023] x 3/32 dB	457	
04 Shaped Threshold Filters +/- 0 >> [0,1023] x 3/32 dB	0	
05 Shaped Threshold Filters +/- 1 >> [0,1023] x 3/32 dB	0	
06 Shaped Threshold Filters +/- 2 >> [0,1023] x 3/32 dB	0	
07 Shaped Threshold Filters +/- 3, +/- 4 >> [0,1023] x 3/32 dB	0	
08 High PRF Threshold 1 dB > Low PRF Threshold >> 1=Yes, 0=No	1	
26 STRADDLE MLT OVERRIDE THRESHOLDS		
01 Straddle Override Threshold Hi PRF +1 >> [0,255] x 3/8 dB	28	
02 Straddle Override Threshold Hi PRF +2 >> [0,255] x 3/8 dB	28	
03 Straddle Override Threshold Hi PRF +3 >> [0,255] x 3/8 dB	28	
04 Straddle Override Threshold Hi PRF +4 >> [0,255] x 3/8 dB	28	
05 Straddle Override Threshold Hi PRF -4 >> [0,255] x 3/8 dB	28	
06 Straddle Override Threshold Hi PRF -3 >> [0,255] x 3/8 dB	28	
07 Straddle Override Threshold Hi PRF -2 >> [0,255] x 3/8 dB	28	
08 Straddle Override Threshold Hi PRF -1 >> [0,255] x 3/8 dB	28	
09 Straddle Override Threshold Lo PRF +1 >> [0,255] x 3/8 dB	28	
10 Straddle Override Threshold Lo PRF +2 >> [0,255] x 3/8 dB	28	
11 Straddle Override Threshold Lo PRF +3 >> [0,255] x 3/8 dB	28	
12 Straddle Override Threshold Lo PRF -3 >> [0,255] x 3/8 dB	28	
13 Straddle Override Threshold Lo PRF -2 >> [0,255] x 3/8 dB	28	
14 Straddle Override Threshold Lo PRF -1 >> [0,255] x 3/8 dB	28	

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
27 STRADDLE MLT OVERRIDE/DISABLE THRESHOLD CORRECTION FACTORS			
01 Straddle Override Correction Hi PRF +1 >> [0,255] x 3/32 dB		5	
02 Straddle Override Correction Hi PRF +2 >> [0,255] x 3/32 dB		5	
03 Straddle Override Correction Hi PRF +3 >> [0,255] x 3/32 dB		5	
04 Straddle Override Correction Hi PRF +4 >> [0,255] x 3/32 dB		5	
05 Straddle Override Correction Hi PRF -4 >> [0,255] x 3/32 dB		5	
06 Straddle Override Correction Hi PRF -3 >> [0,255] x 3/32 dB		5	
07 Straddle Override Correction Hi PRF -2 >> [0,255] x 3/32 dB		5	
08 Straddle Override Correction Hi PRF -1 >> [0,255] x 3/32 dB		5	
09 Straddle Override Correction Lo PRF +1 >> [0,255] x 3/32 dB		5	
10 Straddle Override Correction Lo PRF +2 >> [0,255] x 3/32 dB		5	
11 Straddle Override Correction Lo PRF +3 >> [0,255] x 3/32 dB		5	
12 Straddle Override Correction Lo PRF -3 >> [0,255] x 3/32 dB		5	
13 Straddle Override Correction Lo PRF -2 >> [0,255] x 3/32 dB		5	
14 Straddle Override Correction Lo PRF -1 >> [0,255] x 3/32 dB		5	

C & I VSPPs

		VALUE	VALUE
31 SINGLE CPI TARGETS			
01 RFI Eliminate HI-PRF >> Number of Filters: [5,10]		5	
02 RFI Eliminate LO-PRF >> Number of Filters: [5,10]		5	
03 RFI Elimination Enable >> (-1)=Enable Process, 0=Disable		-1	
04 Supplemental RFI Threshold >> [5,100] Single-CPI Reports		5	
05 Supplemental RFI Enable >> (-1)=Enable Process, 0=Disable		-1	
06 Max S/N Level For Filter 1 Amplitudes >> [0,50] dB		50	
07 Max S/N Level For Filters 0234 Amplitudes >> [0,50] dB		50	
32 ADAPTIVE MAP 11			
01 Enable Thresh. 10 /Zone 1/Conf=0 >> (-1)=Enabled, 0=Disabled		-1	
02 Enable Thresh. 10 /Zone 1/Conf=1 >> (-1)=Enabled, 0=Disabled		-1	
03 Enable Thresh. 10 /Zone 1/Conf=2 >> (-1)=Enabled, 0=Disabled		-1	
04 Enable Thresh. 10 /Zone 1/Conf=3 >> (-1)=Enabled, 0=Disabled		-1	
05 Enable Thresh. 10 /Zone 1/Conf=4 >> (-1)=Enabled, 0=Disabled		-1	
06 Enable Thresh. 10 /Zone 1/Conf=5 >> (-1)=Enabled, 0=Disabled		-1	
07 Enable Thresh. 10 /Zone 2/Conf=0 >> (-1)=Enabled, 0=Disabled		-1	
08 Enable Thresh. 10 /Zone 2/Conf=1 >> (-1)=Enabled, 0=Disabled		-1	
09 Enable Thresh. 10 /Zone 2/Conf=2 >> (-1)=Enabled, 0=Disabled		-1	
10 Enable Thresh. 10 /Zone 2/Conf=3 >> (-1)=Enabled, 0=Disabled		-1	
11 Enable Thresh. 10 /Zone 2/Conf=4 >> (-1)=Enabled, 0=Disabled		-1	
12 Enable Thresh. 10 /Zone 2/Conf=5 >> (-1)=Enabled, 0=Disabled		-1	
13 Qual.Rank to Enable ID Test >> [0,3] Qual.Rank		3	
14 Confidence to Enable ID Test >> [-2,5] See Manual		-2	
15 Interpolated Dop. Thr. for Adpt.Thr.Excl. >> [0,64]xPRF/64	(40)	30 to 40	
16 Adaptive Threshold Range for Excl. Tables >> [64,960] RC		512	

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
33	ADAPTIVE MAP 2		
01	Thresh. for Selecting "DEC1" or "DEC2" >> [0,16] Targets	1	
02	Thresh. for Selecting "DEC2" or "DEC3" >> [2,32] Targets	2	
03	Adapt. Map Threshold Decrement #1 >> [0,511] x 3/256 dB	(14) 4 to 16	
04	Adapt. Map Threshold Decrement #2 >> [0,511] x 3/256 dB	(4) 3 to 8	
05	Adapt. Map Threshold Decrement #3 >> [0,511] x 3/256 dB	2	
06	Minimum Value of Thr. >> [0,255] x 3/256 dB Rel. to Noise	1	
07	Thresholds 1-9 Increment >> [1,128] x 3/256 dB	86	
08	Final Offset for Thresholds 1-9 >> [0,63] x 3/32 dB	22	
09	Selective Top Limit/Exclusion RAG >> (-1)=Enable, 0=Disable	(0) OPT	
10	# Scans for Update of Adapt. Threshold Map >> [1,25] Scans	1	
11	Adaptive Threshold Enable >> (-1)=Enable, 0=Disable	-1	
12	Threshold 10 Increment >> [1,128] x 3/256 dB	86	
13	Final Offset for Threshold 10 >> [0,63] x 3/32 dB	22	
14	Min Final Threshold for Conf=0/Qual>0 >> [0,40] dB	5	
15	Min Final Threshold for Conf=1/Qual>0 >> [0,40] dB	5	
16	Min Final Threshold for Conf=0/Qual=0 >> [0,40] dB	5	
17	Min Final Threshold for Conf=1/Qual=0 >> [0,40] dB	5	
34	MAXIMUM THR FOR ZVFs		
01	Max S/N Lvl of THR for Zero-Filters /Ring 1 >> [2,50] dB	(13) 13 to 30	
02	Max S/N Lvl of THR for Zero-Filters /Ring 2 >> [2,50] dB	(25) 13 to 30	
03	Max S/N Lvl of THR for Zero-Filters /Ring 3 >> [2,50] dB	(25) 13 to 30	
04	Max S/N Lvl of THR for Zero-Filters /Ring 4 >> [2,50] dB	(25) 13 to 30	
05	Max S/N Lvl of THR for Zero-Filters /Ring 5 >> [2,50] dB	(25) 13 to 30	
06	Max S/N Lvl of THR for Zero-Filters /Ring 6 >> [2,50] dB	(25) 13 to 30	
07	Max S/N Lvl of THR for Zero-Filters /Ring 7 >> [2,50] dB	(25) 13 to 30	
08	Max S/N Lvl of THR for Zero-Filters /Ring 8 >> [2,50] dB	(25) 13 to 30	
09	Max S/N Lvl of THR for Zero-Filters /Ring 9 >> [2,50] dB	(20) 13 to 30	
10	Max S/N Lvl of THR for Zero-Filters /Ring 10 >> [2,50] dB	(20) 13 to 30	
11	Max S/N Lvl of THR for Zero-Filters /Ring 11 >> [2,50] dB	(20) 13 to 30	
12	Max S/N Lvl of THR for Zero-Filters /Ring 12 >> [2,50] dB	(20) 13 to 30	
35	MAXIMUM THR FOR NZVFs		
01	Max S/N Lvl of THR for Non-Zero Fltrs/Ring 1 >> [2,50] dB	(13) 13 to 30	
02	Max S/N Lvl of THR for Non-Zero Fltrs/Ring 2 >> [2,50] dB	(24) 13 to 30	
03	Max S/N Lvl of THR for Non-Zero Fltrs/Ring 3 >> [2,50] dB	(24) 13 to 30	
04	Max S/N Lvl of THR for Non-Zero Fltrs/Ring 4 >> [2,50] dB	(27) 13 to 30	
05	Max S/N Lvl of THR for Non-Zero Fltrs/Ring 5 >> [2,50] dB	(27) 13 to 30	
06	Max S/N Lvl of THR for Non-Zero Fltrs/Ring 6 >> [2,50] dB	(27) 13 to 30	
07	Max S/N Lvl of THR for Non-Zero Fltrs/Ring 7 >> [2,50] dB	(27) 13 to 30	
08	Max S/N Lvl of THR for Non-Zero Fltrs/Ring 8 >> [2,50] dB	(27) 13 to 30	
09	Max S/N Lvl of THR for Non-Zero Fltrs/Ring 9 >> [2,50] dB	(27) 13 to 30	
10	Max S/N Lvl of THR for Non-Zero Fltrs/Ring 10 >> [2,50] dB	(27) 13 to 30	
11	Max S/N Lvl of THR for Non-Zero Fltrs/Ring 11 >> [2,50] dB	(22) 13 to 30	
12	Max S/N Lvl of THR for Non-Zero Fltrs/Ring 12 >> [2,50] dB	(22) 13 to 30	

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
36	TRACK ELIGIBILITY -- ZONE 1 -- LOWER QUALITY		
01	Track Elig. /Qual.Rank=0/Conf=0/Zone 1 >> [0,3] See MAN	0	
02	Track Elig. /Qual.Rank=0/Conf=1/Zone 1 >> [0,3] See MAN	0	
03	Track Elig. /Qual.Rank=0/Conf=2/Zone 1 >> [0,3] See MAN	0	
04	Track Elig. /Qual.Rank=0/Conf=3/Zone 1 >> [0,3] See MAN	3	
05	Track Elig. /Qual.Rank=0/Conf=4/Zone 1 >> [0,3] See MAN	3	
06	Track Elig. /Qual.Rank=0/Conf=5/Zone 1 >> [0,3] See MAN	1	
07	Track Elig. /Qual.Rank=1/Conf=0/Zone 1 >> [0,3] See MAN	3	
08	Track Elig. /Qual.Rank=1/Conf=1/Zone 1 >> [0,3] See MAN	3	
09	Track Elig. /Qual.Rank=1/Conf=2/Zone 1 >> [0,3] See MAN	0	
10	Track Elig. /Qual.Rank=1/Conf=3/Zone 1 >> [0,3] See MAN	2	
11	Track Elig. /Qual.Rank=1/Conf=4/Zone 1 >> [0,3] See MAN	1	
12	Track Elig. /Qual.Rank=1/Conf=5/Zone 1 >> [0,3] See MAN	1	
37	TRACK ELIGIBILITY -- ZONE 1 -- HIGHER QUALITY		
01	Track Elig. /Qual.Rank=2/Conf=0/Zone 1 >> [0,3] See MAN	3	
02	Track Elig. /Qual.Rank=2/Conf=1/Zone 1 >> [0,3] See MAN	3	
03	Track Elig. /Qual.Rank=2/Conf=2/Zone 1 >> [0,3] See MAN	0	
04	Track Elig. /Qual.Rank=2/Conf=3/Zone 1 >> [0,3] See MAN	2	
05	Track Elig. /Qual.Rank=2/Conf=4/Zone 1 >> [0,3] See MAN	2	
06	Track Elig. /Qual.Rank=2/Conf=5/Zone 1 >> [0,3] See MAN	1	
07	Track Elig. /Qual.Rank=3/Conf=0/Zone 1 >> [0,3] See MAN	3	
08	Track Elig. /Qual.Rank=3/Conf=1/Zone 1 >> [0,3] See MAN	3	
09	Track Elig. /Qual.Rank=3/Conf=2/Zone 1 >> [0,3] See MAN	0	
10	Track Elig. /Qual.Rank=3/Conf=3/Zone 1 >> [0,3] See MAN	2	
11	Track Elig. /Qual.Rank=3/Conf=4/Zone 1 >> [0,3] See MAN	2	
12	Track Elig. /Qual.Rank=3/Conf=5/Zone 1 >> [0,3] See MAN	1	
38	TRACK ELIGIBILITY -- ZONE 2 -- LOWER QUALITY		
01	Track Elig. /Qual.Rank=0/Conf=0/Zone 2 >> [0,3] See MAN	0	
02	Track Elig. /Qual.Rank=0/Conf=1/Zone 2 >> [0,3] See MAN	0	
03	Track Elig. /Qual.Rank=0/Conf=2/Zone 2 >> [0,3] See MAN	0	
04	Track Elig. /Qual.Rank=0/Conf=3/Zone 2 >> [0,3] See MAN	3	
05	Track Elig. /Qual.Rank=0/Conf=4/Zone 2 >> [0,3] See MAN	3	
06	Track Elig. /Qual.Rank=0/Conf=5/Zone 2 >> [0,3] See MAN	3	
07	Track Elig. /Qual.Rank=1/Conf=0/Zone 2 >> [0,3] See MAN	3	
08	Track Elig. /Qual.Rank=1/Conf=1/Zone 2 >> [0,3] See MAN	3	
09	Track Elig. /Qual.Rank=1/Conf=2/Zone 2 >> [0,3] See MAN	0	
10	Track Elig. /Qual.Rank=1/Conf=3/Zone 2 >> [0,3] See MAN	1	
11	Track Elig. /Qual.Rank=1/Conf=4/Zone 2 >> [0,3] See MAN	2	
12	Track Elig. /Qual.Rank=1/Conf=5/Zone 2 >> [0,3] See MAN	2	
39	TRACK ELIGIBILITY -- ZONE 2 -- HIGHER QUALITY		
01	Track Elig. /Qual.Rank=2/Conf=0/Zone 2 >> [0,3] See MAN	3	
02	Track Elig. /Qual.Rank=2/Conf=1/Zone 2 >> [0,3] See MAN	3	
03	Track Elig. /Qual.Rank=2/Conf=2/Zone 2 >> [0,3] See MAN	0	
04	Track Elig. /Qual.Rank=2/Conf=3/Zone 2 >> [0,3] See MAN	1	
05	Track Elig. /Qual.Rank=2/Conf=4/Zone 2 >> [0,3] See MAN	2	
06	Track Elig. /Qual.Rank=2/Conf=5/Zone 2 >> [0,3] See MAN	2	
07	Track Elig. /Qual.Rank=3/Conf=0/Zone 2 >> [0,3] See MAN	3	
08	Track Elig. /Qual.Rank=3/Conf=1/Zone 2 >> [0,3] See MAN	3	
09	Track Elig. /Qual.Rank=3/Conf=2/Zone 2 >> [0,3] See MAN	0	
10	Track Elig. /Qual.Rank=3/Conf=3/Zone 2 >> [0,3] See MAN	1	
11	Track Elig. /Qual.Rank=3/Conf=4/Zone 2 >> [0,3] See MAN	2	
12	Track Elig. /Qual.Rank=3/Conf=5/Zone 2 >> [0,3] See MAN	2	

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
3A	ARTS QUALITY - 1		
01	Arts Quality for //Conf=0//Qual.Rank=0 >> [0,7] Quality	0	
02	Arts Quality for //Conf=1//Qual.Rank=0 >> [0,7] Quality	1	
03	Arts Quality for //Conf=2//Qual.Rank=0 >> [0,7] Quality	1	
04	Arts Quality for //Conf=3//Qual.Rank=0 >> [0,7] Quality	3	
05	Arts Quality for //Conf=4//Qual.Rank=0 >> [0,7] Quality	3	
06	Arts Quality for //Conf=5//Qual.Rank=0 >> [0,7] Quality	4	
07	Arts Quality for //Conf=0//Qual.Rank=1 >> [0,7] Quality	0	
08	Arts Quality for //Conf=1//Qual.Rank=1 >> [0,7] Quality	2	
09	Arts Quality for //Conf=2//Qual.Rank=1 >> [0,7] Quality	0	
10	Arts Quality for //Conf=3//Qual.Rank=1 >> [0,7] Quality	5	
11	Arts Quality for //Conf=4//Qual.Rank=1 >> [0,7] Quality	4	
12	Arts Quality for //Conf=5//Qual.Rank=1 >> [0,7] Quality	5	
3B	ARTS QUALITY - 2		
01	Arts Quality for //Conf=0//Qual.Rank=2 >> [0,7] Quality	0	
02	Arts Quality for //Conf=1//Qual.Rank=2 >> [0,7] Quality	3	
03	Arts Quality for //Conf=2//Qual.Rank=2 >> [0,7] Quality	0	
04	Arts Quality for //Conf=3//Qual.Rank=2 >> [0,7] Quality	6	
05	Arts Quality for //Conf=4//Qual.Rank=2 >> [0,7] Quality	5	
06	Arts Quality for //Conf=5//Qual.Rank=2 >> [0,7] Quality	6	
07	Arts Quality for //Conf=0//Qual.Rank=3 >> [0,7] Quality	0	
08	Arts Quality for //Conf=1//Qual.Rank=3 >> [0,7] Quality	4	
09	Arts Quality for //Conf=2//Qual.Rank=3 >> [0,7] Quality	0	
10	Arts Quality for //Conf=3//Qual.Rank=3 >> [0,7] Quality	7	
11	Arts Quality for //Conf=4//Qual.Rank=3 >> [0,7] Quality	6	
12	Arts Quality for //Conf=5//Qual.Rank=3 >> [0,7] Quality	7	
3C	C & I - GENERAL		
01	9-Cell Contour Threshold >> [1,9] Detections Out of 9 Cells	5	
02	6-Lvl Number Assoc. With Lo-Lvl Weather >> Level [1 to 5]	2	
03	6-Lvl Number Assoc. With Hi-Lvl Weather >> Level [2 to 6]	4	
04	CPI Pair Boundary Window for Geocensor Tags >> [0,7] ACPs	(4)OPT	
3D	SELECTIVE TOP LIMITING #1		
01	Range Ring Number for Table Entry #1 >> [0,12]	OPT	
02	Azimuth Sector Number for Table Entry #1 >> [0,31]	OPT	
03	Max ZVF Threshold for Table Entry #1 >> [2,50] dB	OPT	
04	Max NZVF Threshold for Table Entry #1 >> [2,50] dB	OPT	
05	Range Ring Number for Table Entry #2 >> [0,12]	OPT	
06	Azimuth Sector Number for Table Entry #2 >> [0,31]	OPT	
07	Max ZVF Threshold for Table Entry #2 >> [2,50] dB	OPT	
08	Max NZVF Threshold for Table Entry #2 >> [2,50] dB	OPT	
09	Range Ring Number for Table Entry #3 >> [0,12]	OPT	
10	Azimuth Sector Number for Table Entry #3 >> [0,31]	OPT	
11	Max ZVF Threshold for Table Entry #3 >> [2,50] dB	OPT	
12	Max NZVF Threshold for Table Entry #3 >> [2,50] dB	OPT	

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
3D	SELECTIVE TOP LIMITING #2		
13	Range Ring Number for Table Entry #4 >> [0,12]	OPT	
14	Azimuth Sector Number for Table Entry #4 >> [0,31]	OPT	
15	Max ZVF Threshold for Table Entry #4 >> [2,50] dB	OPT	
16	Max NZVF Threshold for Table Entry #4 >> [2,50] dB	OPT	
17	Range Ring Number for Table Entry #5 >> [0,12]	OPT	
18	Azimuth Sector Number for Table Entry #5 >> [0,31]	OPT	
19	Max ZVF Threshold for Table Entry #5 >> [2,50] dB	OPT	
20	Max NZVF Threshold for Table Entry #5 >> [2,50] dB	OPT	
21	Range Ring Number for Table Entry #6 >> [0,12]	OPT	
22	Azimuth Sector Number for Table Entry #6 >> [0,31]	OPT	
23	Max ZVF Threshold for Table Entry #6 >> [2,50] dB	OPT	
24	Max NZVF Threshold for Table Entry #6 >> [2,50] dB	OPT	
3E	ADAPTIVE MAP EXCLUSION RAGs #1		
01	Start Azimuth for RAG #1 >> [0,4095] ACPs	OPT	
02	Stop Azimuth for RAG #1 >> [0,4095] ACPs	OPT	
03	Start Range for RAG #1 >> [0,3839] BTD-Range-Cells	OPT	
04	Stop Range for RAG #1 >> [0,3839] BTD-Range-Cells	OPT	
05	Multi CPI Target Exclusion Threshold RAG #1 >> [2,50] dB	OPT	
06	Single CPI Target Exclusion Threshold RAG #1 >> [2,50] dB	OPT	
07	History Test Scan Window for RAG #1 >> [1,16] Scans	OPT	
08	History Test Activity Threshold RAG #1 >> [4,100] Targets	OPT	
09	Start Azimuth for RAG #2 >> [0,4095] ACPs	OPT	
10	Stop Azimuth for RAG #2 >> [0,4095] ACPs	OPT	
11	Start Range for RAG #2 >> [0,3839] BTD-Range-Cells	OPT	
12	Stop Range for RAG #2 >> [0,3839] BTD-Range-Cells	OPT	
13	Multi CPI Target Exclusion Threshold RAG #2 >> [2,50] dB	OPT	
14	Single CPI Target Exclusion Threshold RAG #2 >> [2,50] dB	OPT	
15	History Test Scan Window for RAG #2 >> [1,16] Scans	OPT	
16	History Test Activity Threshold RAG #2 >> [4,100] Targets	OPT	
3E	ADAPTIVE MAP EXCLUSION RAGs #2		
17	Start Azimuth for RAG #3 >> [0,4095] ACPs	OPT	
18	Stop Azimuth for RAG #3 >> [0,4095] ACPs	OPT	
19	Start Range for RAG #3 >> [0,3839] BTD-Range-Cells	OPT	
20	Stop Range for RAG #3 >> [0,3839] BTD-Range-Cells	OPT	
21	Multi CPI Target Exclusion Threshold RAG #3 >> [2,50] dB	OPT	
22	Single CPI Target Exclusion Threshold RAG #3 >> [2,50] dB	OPT	
23	History Test Scan Window for RAG #3 >> [1,16] Scans	OPT	
24	History Test Activity Threshold RAG #3 >> [4,100] Targets	OPT	
25	Start Azimuth for RAG #4 >> [0,4095] ACPs	OPT	
26	Stop Azimuth for RAG #4 >> [0,4095] ACPs	OPT	
27	Start Range for RAG #4 >> [0,3839] BTD-Range-Cells	OPT	
28	Stop Range for RAG #4 >> [0,3839] BTD-Range-Cells	OPT	
29	Multi CPI Target Exclusion Threshold RAG #4 >> [2,50] dB	OPT	
30	Single CPI Target Exclusion Threshold RAG #4 >> [2,50] dB	OPT	
31	History Test Scan Window for RAG #4 >> [1,16] Scans	OPT	
32	History Test Activity Threshold RAG #4 >> [4,100] Targets	OPT	

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
3E	ADAPTIVE MAP EXCLUSION RAGs #3		
33	Start Azimuth for RAG #5 >> [0,4095] ACPs	OPT	
34	Stop Azimuth for RAG #5 >> [0,4095] ACPs	OPT	
35	Start Range for RAG #5 >> [0,3839] BTD-Range-Cells	OPT	
36	Stop Range for RAG #5 >> [0,3839] BTD-Range-Cells	OPT	
37	Multi CPI Target Exclusion Threshold RAG #5 >> [2,50] dB	OPT	
38	Single CPI Target Exclusion Threshold RAG #5 >> [2,50] dB	OPT	
39	History Test Scan Window for RAG #5 >> [1,16] Scans	OPT	
40	History Test Activity Threshold RAG #5 >> [4,100] Targets	OPT	
41	Start Azimuth for RAG #6 >> [0,4095] ACPs	OPT	
42	Stop Azimuth for RAG #6 >> [0,4095] ACPs	OPT	
43	Start Range for RAG #6 >> [0,3839] BTD-Range-Cells	OPT	
44	Stop Range for RAG #6 >> [0,3839] BTD-Range-Cells	OPT	
45	Multi CPI Target Exclusion Threshold RAG #6 >> [2,50] dB	OPT	
46	Single CPI Target Exclusion Threshold RAG #6 >> [2,50] dB	OPT	
47	History Test Scan Window for RAG #6 >> [1,16] Scans	OPT	
48	History Test Activity Threshold RAG #6 >> [4,100] Targets	OPT	

MERGE / TRACKER VSPs

	MERGE / TRACKER VSPs	VALUE	VALUE
01	Disable Runlength Overlap Test >> -1=Disable Test,0=Enable	-1	
02	Maximum Delay in BTM Function >> [0,255] ACPs	176	
03	Merge Target Range Source >> 0 = Beacon, 1 = Radar	1	
04	Merge Target Azimuth Source >> 0 = Beacon, 1 = Radar	1	
05	Max Error Between RDR and BCN Azimuth >> [1,128] ACPs	16	
06	Max Error Between RDR and BCN Range >> [2,128] 1/4 RDR-RCs	10	
07	Minimum Delta Azimuth for Move Test >> [7,40] ACPs	16	
08	Min Delta-Range for Move Test >> [4,20] 1/4 RDR-Rng-Cells	16	
09	3 Detections Out of [3,4] Required to Establish a Track	4	
10	Rcorr Trgt Rprt Output Disable >> -1=Dsbl Output, 0=Enable	0	
11	Correlate List Purge Interval >> [1,255] ACPs	34	

	PROCESSOR AUGMENTATION CARD - MERGE GENERAL	VALUE	VALUE
01	Merge Target Range Source in RAGs >> 0 = Beacon, 1 = Radar	0	
02	Merge Target Azimuth Source in RAGs >> 0 = Beacon, 1 = Radar	0	
03	Minimum Radar Quality for Merge Source >> [0,3] Quality	1	
04	Minimum Radar Confidence for Merge Source >> [0,5] Conf	3	

	MERGE POSITION SOURCE RAGs #1	VALUE	VALUE
01	Start Azimuth for RAG zone #1 >> [0,4095] ACPs	OPT	
02	Stop Azimuth for RAG zone #1 >> [0,4095] ACPs	OPT	
03	Start Range for RAG zone #1 >> [0,3839] BTD-RCs	OPT	
04	Stop Range for RAG zone #1 >> [0,3839] BTD-RCs	OPT	
05	Start Azimuth for RAG zone #2 >> [0,4095] ACPs	OPT	
06	Stop Azimuth for RAG zone #2 >> [0,4095] ACPs	OPT	
07	Start Range for RAG zone #2 >> [0,3839] BTD-RCs	OPT	
08	Stop Range for RAG zone #2 >> [0,3839] BTD-RCs	OPT	
09	Start Azimuth for RAG zone #3 >> [0,4095] ACPs	OPT	
10	Stop Azimuth for RAG zone #3 >> [0,4095] ACPs	OPT	
11	Start Range for RAG zone #3 >> [0,3839] BTD-RCs	OPT	
12	Stop Range for RAG zone #3 >> [0,3839] BTD-RCs	OPT	
13	Start Azimuth for RAG zone #4 >> [0,4095] ACPs	OPT	
14	Stop Azimuth for RAG zone #4 >> [0,4095] ACPs	OPT	
15	Start Range for RAG zone #4 >> [0,3839] BTD-RCs	OPT	
16	Stop Range for RAG zone #4 >> [0,3839] BTD-RCs	OPT	

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
44	MERGE POSITION SOURCE RAGs #2		
01	Start Azimuth for RAG zone #5 >> [0,4095] ACPs		OPT
02	Stop Azimuth for RAG zone #5 >> [0,4095] ACPs		OPT
03	Start Range for RAG zone #5 >> [0,3839] BTD-RCs		OPT
04	Stop Range for RAG zone #5 >> [0,3839] BTD-RCs		OPT
05	Start Azimuth for RAG zone #6 >> [0,4095] ACPs		OPT
06	Stop Azimuth for RAG zone #6 >> [0,4095] ACPs		OPT
07	Start Range for RAG zone #6 >> [0,3839] BTD-RCs		OPT
08	Stop Range for RAG zone #6 >> [0,3839] BTD-RCs		OPT
09	Start Azimuth for RAG zone #7 >> [0,4095] ACPs		OPT
10	Stop Azimuth for RAG zone #7 >> [0,4095] ACPs		OPT
11	Start Range for RAG zone #7 >> [0,3839] BTD-RCs		OPT
12	Stop Range for RAG zone #7 >> [0,3839] BTD-RCs		OPT
13	Start Azimuth for RAG zone #8 >> [0,4095] ACPs		OPT
14	Stop Azimuth for RAG zone #8 >> [0,4095] ACPs		OPT
15	Start Range for RAG zone #8 >> [0,3839] BTD-RCs		OPT
16	Stop Range for RAG zone #8 >> [0,3839] BTD-RCs		OPT

Beacon VSPs

		VALUE	VALUE
51	BEACON RTQC		
01	Beacon RTQC Code >> Enter Octal Code	(7770)	OPT
02	SPI Bit Enable >> 1-Bit Present 0-Bit Not Present	(0)	OPT
03	Beacon RTQC X-Bit Enable >> 1-Bit Present 0-Bit Not Prsnt	(0)	OPT
04	Centroid Range for Beacon RTQC >> [99,4095] BTD-Rng-Cells		OPT
05	Centroid Azimuth for Beacon RTQC >> ACP # [0,4095]		OPT
06	Beacon RTQC Runlength >> [0,10] Beacon PRTs		10
52	BEACON - GENERAL 1		
01	BCN Range-Offset Enable >> (-1)=Offset Enabled, 0=Disable		0
02	BRP Video Range Window >> [0,70] x 512 BRP-Range-Cells		17
03	Max Non-Overlapped Pulsewidth >> [7,9] BRP-Rng-Cells		9
04	Min Acceptable Reply Pulsewidth >> [3,9] 1/2 BRP-Rng-Cells		3
05	Bracket Tolerance >> [1,3] BRP-Range-Cells		2
06	Code Position Tolerance >> [1,2] BRP-Range-Cells		2
07	Garble Tolerance >> [1,2] x 2 BRP-Range-Cells		1
08	Blank BCN Video Below This Range >> [0,255] x 64 BRP-RCs	(0)	0 to 255
09	Blank BCN Video Above This Range >> [0,255] x 64 BRP-RCs	(141)	0 to 255
11	Mode-S Preamble Detection Bracket Tolerance >> [1,2] BRP Rcs		1
12	Mode-S Preamble Detection Mode >> [0,3] See Manual	(0)	0 to 3

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
53	BEACON - GENERAL 2		
01	Detection Count for Modes: 3/A >> [1,15] Cnts	4	
02	Detection Count for Modes: C >> [1,15] Cnts	6	
03	Detection Count for Modes: 3/A and C >> [1,15] Cnts	5	
04	Detection Count for Modes: 2 >> [1,15] Cnts	4	
05	Detection Count for Modes: 3/A and 2 >> [1,15] Cnts	4	
06	Detection Count for Modes: 2 and C >> [1,15] Cnts	4	
07	Detection Count for Modes: 3/A, 2, and C >> [1,15] Cnts	5	
08	Initial Value of Report Age Field >> [5,20] Beacon PRTs	12	
09	# of Code Mismatches to Trigger Secondary Azimuth >> [1,6]	3	
10	# of Hits to Begin Code Validation >> [1,6] Hits	2	
11	# of Successive Matches for Validation >> [1,6]	2	
12	Azimuth Offset for Delay Compensation >> [-127,127] ACPs	OPT	
13	BTD Range Bias >> [-640,640] BTD-Range-Cells	OPT	

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
54	PROCESSOR AUGMENTATION CARD - GENERAL		
01	Max Runlength Allowed for Any Target >> [0,111] ACPs	66	
02	Reflector Merging Orientation Error >> [0,333] ACPs	33	
03	Reflector Merging Range Error >> [0,32] BTD-RCs	16	
04	Reflector Merging Azimuth Error >> [0,333] ACPs	33	
05	Reflector-Based False Target Range Box >> [0,64] BTD-RCs	16	
06	Reflector-Based False Target Azimuth Box >> [0,222] ACPs	33	
07	Real Report Corrs Needed to Declare Real Track >> [0,5] Corrs	3	
08	False Rprt Corrs Needed to Declare False Track >> [0,5] Corrs	2	
09	Coasts Needed to Drop a Mature Track >> [3,10] Coasts	5	
10	Coasts Needed to Drop an Immature Track >> [1,5] Coasts	2	

55 NONDISCRETE 3/A CODE LIST

The following VSP entries are octal mode 3/A codes for discrete codes which are to be treated as nondiscrete by the 9-PAC BTD processor. A 0000 entry indicates not used.

01 Code #1 (0000)OPT	11 Code #11 (0000)OPT
02 Code #2 (0000)OPT	12 Code #12 (0000)OPT
03 Code #3 (0000)OPT	13 Code #13 (0000)OPT
04 Code #4 (0000)OPT	14 Code #14 (0000)OPT
05 Code #5 (0000)OPT	15 Code #15 (0000)OPT
06 Code #6 (0000)OPT	16 Code #16 (0000)OPT
07 Code #7 (0000)OPT	17 Code #17 (0000)OPT
08 Code #8 (0000)OPT	18 Code #18 (0000)OPT
09 Code #9 (0000)OPT	19 Code #19 (0000)OPT
10 Code #10 (0000)OPT	20 Code #20 (0000)OPT

MIP VSPs

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
A1	ASP-MI / SYSTEM CONTROL GENERAL PARAMETERS		
01	Delay of AZ-SYNC Msg by MIP >> [15,113] ACPs	(59) OPT	
03	Sector Message Select >> 0=Search, 1=Beacon	0	

APPENDIX 2. WEATHER CHANNEL VARIABLE SITE PARAMETERS

Six Level Weather VSPs

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
61	6WX BEAM SELECT RAG - ADJACENT WINDOWS		
01	6WX- Strt Az / Adjcnt Beam Sw Window #1 >> [0,255] CPI-PRs	(0) OPT	
02	6WX- Strt Az / Adjcnt Beam Sw Window #2 >> [0,255] CPI-PRs	(32) OPT	
03	6WX- Strt Az / Adjcnt Beam Sw Window #3 >> [0,255] CPI-PR	(64) OPT	
04	6WX- Strt Az / Adjcnt Beam Sw Window #4 >> [0,255] CPI-PRs	(96) OPT	
05	6WX- Strt Az / Adjcnt Beam Sw Window #5 >> [0,255] CPI-PRs	(128) OPT	
06	6WX- Strt Az / Adjcnt Beam Sw Window #6 >> [0,255] CPI-PRs	(160) OPT	
07	6WX- Strt Az / Adjcnt Beam Sw Window #7 >> [0,255] CPI-PRs	(192) OPT	
08	6WX- Strt Az / Adjcnt Beam Sw Window #8 >> [0,255] CPI-PRs	(224) OPT	
09	6WX- Range / Adjacent Beam Sw Window #1 >> [0,60] x 16 RCs	(15) OPT	
10	6WX- Range / Adjacent Beam Sw Window #2 >> [0,60] x 16 RCs	(15) OPT	
11	6WX- Range / Adjacent Beam Sw Window #3 >> [0,60] x 16 RCs	(15) OPT	
12	6WX- Range / Adjacent Beam Sw Window #4 >> [0,60] x 16 RCs	(15) OPT	
13	6WX- Range / Adjacent Beam Sw Window #5 >> [0,60] x 16 RCs	(15) OPT	
14	6WX- Range / Adjacent Beam Sw Window #6 >> [0,60] x 16 RCs	(15) OPT	
15	6WX- Range / Adjacent Beam Sw Window #7 >> [0,60] x 16 RCs	(15) OPT	
16	6WX- Range / Adjacent Beam Sw Window #8 >> [0,60] x 16 Rcs	(15) OPT	
62	6WX BEAM SELECT RAG - ISOLATED WINDOWS 1 & 2		
01	6WX- Strt Az / Isol'd Beam Sw Window #1 >> [0,255] CPI-PRs	OPT	
02	6WX- Az Ext / Isol'd Beam Sw Window #1 >> [0,256] CPI-PRs	OPT	
03	6WX- Strt Rng/ Isol'd Beam Sw Window #1 >> [0,60] x 16 RCs	OPT	
04	6WX- Rng Ext / Isol'd Beam Sw Window #1 >> [0,60] x 16 RCs	OPT	
05	6WX- Hi/Lo / Isolated Beam Sw Window #1 >> 0=Low, 1=High	OPT	
06	6WX- Strt Az / Isol'd Beam Sw Window #2 >> [0,255] CPI-PRs	OPT	
07	6WX- Az Ext / Isol'd Beam Sw Window #2 >> [0,256] CPI-PRs	OPT	
08	6WX- Strt Rng/ Isol'd Beam Sw Window #2 >> [0,60] x 16 RCs	OPT	
09	6WX- Rng Ext / Isol'd Beam Sw Window #2 >> [0,60] x 16 RCs	OPT	
10	6WX- Hi/Lo / Isolated Beam Sw Window #2 >> 0=Low, 1=High	OPT	
11	6WX- Rx-Recovery / LO-Beam Azmth Placement >> [0,255] CPI-PR	OPT	
12	6WX- Rx-Recovery / HI-Beam Azmth Placement >> [0,255] CPI-PR	OPT	
63	6WX BEAM SELECT RAG - ISOLATED WINDOWS 3 & 4		
01	6WX- Strt Az / Isol'd Beam Sw Window #3 >> [0,255] CPI-PRs	OPT	
02	6WX- Az Ext / Isol'd Beam Sw Window #3 >> [0,256] CPI-PRs	OPT	
03	6WX- Strt Rng/ Isol'd Beam Sw Window #3 >> [0,60] x 16 RCs	OPT	
04	6WX- Rng Ext / Isol'd Beam Sw Window #3 >> [0,60] x 16 RCs	OPT	
05	6WX- Hi/Lo / Isolated Beam Sw Window #3 >> 0=Low, 1=High	OPT	
06	6WX- Strt Az / Isol'd Beam Sw Window #4 >> [0,255] CPI-PRs	OPT	
07	6WX- Az Ext / Isol'd Beam Sw Window #4 >> [0,256] CPI-PRs	OPT	
08	6WX- Strt Rng/ Isol'd Beam Sw Window #4 >> [0,60] x 16 RCs	OPT	
09	6WX- Rng Ext / Isol'd Beam Sw Window #4 >> [0,60] x 16 RCs	OPT	
10	6WX- Hi/Lo / Isolated Beam Sw Window #4 >> 0=Low, 1=High	OPT	

		ASR-9 BASELINE	WSP SITE
		VALUE	VALUE
64	WEATHER CHANNEL STC		
01	6WX- STC Reference Attenuation >> [0,99] dB	(61) OPT	
02	6WX- STC Slope // Zone #1 >> [0,240] x 0.1 dB/Octave	(58) OPT	
03	6WX- STC Slope // Zone #2 >> [0,240] x 0.1 dB/Octave	(72) OPT	
04	6WX- STC Slope // Zone #3 >> [0,240] x 0.1 dB/Octave	(68) OPT	
05	6WX- STC Slope // Zone #4 >> [0,240] x 0.1 dB/Octave	(48) OPT	
06	6WX- STC Slope // Zone #5 >> [0,240] x 0.1 dB/Octave	(85) OPT	
07	6WX- STC Slope // Zone #6 >> [0,240] x 0.1 dB/Octave	(120) OPT	
08	6WX- STC Slope // Zone #7 >> [0,240] x 0.1 dB/Octave	(137) OPT	
09	6WX- STC Slope // Zone #8 >> [0,240] x 0.1 dB/Octave	(155) OPT	
65	6WX GENERAL PARAMETERS		
01	Spatial Smoothing Parameter (M of 9) >> [1,9] Detections	5	
02	CP Select Threshold >> [1,40] Percent Cells With Lvl > 1	8	
03	LP Select Threshold >> [0,39] Percent Cells With Lvl > 1	4	
04	Weather Thresh. Min Signal to Noise >> [0,213] x 3/32 dB	53	
05	Wx Noise Level >> [0,31] x 15/32 dB Above 1 Quantum Level	4	
06	Radar PRF For Weather Channel >> [0,28] Table Index	(16 - 28)	
07	Minimum Reflectivity Threshold >> [0,30] dBz	18	
08	Channel A MDS Cal Factor >> [-430,430] x 3/32 dB	OPT	
09	Channel B MDS Cal Factor >> [-430,430] x 3/32 dB	OPT	

RMS VSPs

	D1	RMS GENERAL PARAMETERS	VALUE	VALUE
01		RMS/MPS Link Address >> [32,254]	33	
02		RBPM Existence Flag >> [1=Present 0=Not Present]	OPT	
03		Number of ANSs Present at the Site >> [1,2]	OPT	
04		Power Meter Ch.A / CAL FACTOR of Probe >> [10,1500] x 0.1%	OPT	
05		Power Meter Ch.B / CAL FACTOR of Probe >> [10,1500] x 0.1%	OPT	
06		TGT Ch.A / Center Freq for Spect Analyz >> [2700,2900] Mhz	OPT	
07		TGT Ch.A /Meter Ch.A/Cable+Coupler Losses>> [0,9999]x .01dB	OPT	
08		TGT Ch.A /Meter Ch.B/Cable+Coupler Losses>> [0,9999]x .01dB	OPT	
09		TGT Ch.B / Center Freq for Spect Analyz >> [2700,2900] Mhz	OPT	
10		TGT Ch.B /Meter Ch.A/Cable+Coupler Losses>> [0,9999]x .01dB	OPT	
11		TGT Ch.B /Meter Ch.B/Cable+Coupler Losses>> [0,9999]x .01dB	OPT	
12		MPS Transmission Character Time-Out Value >> [1,255] mSec	5	
13		MPS Max # of Re-Tranmissions Allowed >> [1,255] Retries	7	
14		MPS Maximum No Response Retry Counter >> [1,255] Retries	1	

SCC VSPs

	E1	SCC GENERAL PARAMETERS	VALUE	VALUE
01		Mode-S Existence Flag >> 1=Mode-S, 0=No Mode-S	(0) OPT	
02		Enable CTS From Second Dual Remote Site >> 0=No, 1=Yes	(0) OPT	
03		WSP Existence Flag >> 1=WSP, 0=No WSP	(0) OPT	1
04		Allow Control Points of Equal Priority to Take Control Away from Each Other >> 0=No, 1=Yes	(0) OPT	
05		Enable Front-End Auto Switch on Summary Fault >> 0=No, 1=Yes	(0) OPT	
06		Source of Clear-to-Send 0 = Modem Links 1, 2 and 4 1 = Modem Links 7, 8 and 9	(0) OPT	
07		Enable Audible Alarm on Front-End Summary Fault >> 0=No, 1=Yes	(0) OPT	
08		Remote System Control Existence Flag >> 0=No, 1=Yes	(1) OPT	

APPENDIX 3. SURVEILLANCE COMMUNICATION INTERFACE PROCESSOR VARIABLE SITE PARAMETERS

01	BEACON AZIMUTH EXTENT	VALUE
Range 0 to 10 NMI; Enter 1, 2 ... 128 (ACP)	(60) 56 to 80	
Range 10 to 20 NMI; Enter 1, 2 ... 128 (ACP)	(50) 38 to 78	
Range 20 to 30 NMI; Enter 1, 2 ... 128 (ACP)	(50) 32 to 76	
Range 30 to 40 NMI; Enter 1, 2 ... 128 (ACP)	(50) 24 to 74	
Range 40 to 50 NMI; Enter 1, 2 ... 128 (ACP)	(50) 22 to 72	
Range 50 to 60 NMI; Enter 1, 2 ... 128 (ACP)	(50) 18 to 70	

NOTE:The values provided are settings for radar separation between 2 nmi and 60 nmi

02	RADAR AZIMUTH EXTENT	VALUE
Range 0 to 10 NMI; Enter 1, 2 ... 128 (ACP)	(28) 28 to 40	
Range 10 to 20 NMI; Enter 1, 2 ... 128 (ACP)	(19) 19 to 39	
Range 20 to 30 NMI; Enter 1, 2 ... 128 (ACP)	(16) 16 to 38	
Range 30 to 40 NMI; Enter 1, 2 ... 128 (ACP)	(12) 12 to 37	
Range 40 to 50 NMI; Enter 1, 2 ... 128 (ACP)	(11) 11 to 36	
Range 50 to 60 NMI; Enter 1, 2 ... 128 (ACP)	(9) 9 to 35	

NOTE:The values provided are settings for radar separation between 2 nmi and 60 nmi

03	UNCORRELATED AZIMUTH EXTENT	VALUE
Range 0 to 10 NMI; Enter 1, 2 ... 128 (ACP)	14	
Range 10 to 20 NMI; Enter 1, 2 ... 128 (ACP)	9	
Range 20 to 30 NMI; Enter 1, 2 ... 128 (ACP)	8	
Range 30 to 40 NMI; Enter 1, 2 ... 128 (ACP)	8	
Range 40 to 50 NMI; Enter 1, 2 ... 128 (ACP)	8	
Range 50 to 60 NMI; Enter 1, 2 ... 128 (ACP)	8	

NOTE:The values provided are settings for radar separation between 2 nmi and 60 nmi. A larger value may be utilized, if required.

04	BEACON RANGE EXTENT	VALUE
Beacon range extent; Enter 1, 2 ... 7 (/32 NMI)	3	

NOTE:The values provided are settings for radar separation between 2 nmi and 60 nmi. A larger value may be utilized, if required.

05	RADAR RANGE EXTENT	VALUE
Radar range extent; Enter 1, 2 ... 7 (/32 NMI)	3	

NOTE:The values provided are settings for radar separation between 2 nmi and 60 nmi. A larger value may be utilized, if required.

06	BEACON RANGE EXTENT	VALUE
Uncorrelated range extent; Enter 1, 2 ... 7 (/32 NMI)	3	

NOTE:The values provided are settings for radar separation between 2 nmi and 60 nmi. A larger value may be utilized, if required.

07	RANGE AZIMUTH GATES	VALUE
Gate # 1		
Start range; Enter 0, 5 ... 60 (NMI)		OPT
Stop range; Enter 0, 5 ... 60 (NMI)		OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Gate # 2		
Start range; Enter 0, 5 ... 60 (NMI)		OPT
Stop range; Enter 0, 5 ... 60 (NMI)		OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP) (0)		OPT
Gate # 3		
Start range; Enter 0, 5 ... 60 (NMI)		OPT
Stop range; Enter 0, 5 ... 60 (NMI)		OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Gate # 4		
Start range; Enter 0, 5 ... 60 (NMI)		OPT
Stop range; Enter 0, 5 ... 60 (NMI)		OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Gate # 5		
Start range; Enter 0, 5 ... 60 (NMI)		OPT
Stop range; Enter 0, 5 ... 60 (NMI)		OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Gate # 6		
Start range; Enter 0, 5 ... 60 (NMI)		OPT
Stop range; Enter 0, 5 ... 60 (NMI)		OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Gate # 7		
Start range; Enter 0, 5 ... 60 (NMI)		OPT
Stop range; Enter 0, 5 ... 60 (NMI)		OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Gate # 8		
Start range; Enter 0, 5 ... 60 (NMI)		OPT
Stop range; Enter 0, 5 ... 60 (NMI)		OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Gate # 9		
Start range; Enter 0, 5 ... 60 (NMI)		OPT
Stop range; Enter 0, 5 ... 60 (NMI)		OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)		OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP) (0) ?		

Gate # 10

Start range; Enter 0, 5 ... 60 (NMI)	OPT
Stop range; Enter 0, 5 ... 60 (NMI)	OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)	OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)	OPT

Gate # 11

Start range; Enter 0, 5 ... 60 (NMI)	OPT
Stop range; Enter 0, 5 ... 60 (NMI)	OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)	OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)	OPT

Gate # 12

Start range; Enter 0, 5 ... 60 (NMI) (0)	OPT
Stop range; Enter 0, 5 ... 60 (NMI) (0)	OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)	OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)	OPT

Gate # 13

Start range; Enter 0, 5 ... 60 (NMI)	OPT
Stop range; Enter 0, 5 ... 60 (NMI)	OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)	OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)	OPT

Gate # 14

Start range; Enter 0, 5 ... 60 (NMI)	OPT
Stop range; Enter 0, 5 ... 60 (NMI)	OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)	OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)	OPT

Gate # 15

Start range; Enter 0, 5 ... 60 (NMI)	OPT
Stop range; Enter 0, 5 ... 60 (NMI)	OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)	OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)	OPT

Gate # 16

Start range; Enter 0, 5 ... 60 (NMI)	OPT
Stop range; Enter 0, 5 ... 60 (NMI)	OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)	OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)	OPT

Gate # 17

Start range; Enter 0, 5 ... 60 (NMI)	OPT
Stop range; Enter 0, 5 ... 60 (NMI)	OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)	OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)	OPT

Gate # 18

Start range; Enter 0, 5 ... 60 (NMI)	OPT
Stop range; Enter 0, 5 ... 60 (NMI)	OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)	OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)	OPT

Gate # 19

Start range; Enter 0, 5 ... 60 (NMI)	OPT
Stop range; Enter 0, 5 ... 60 (NMI)	OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)	OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)	OPT

Gate # 20

Start range; Enter 0, 5 ... 60 (NMI)	OPT
Stop range; Enter 0, 5 ... 60 (NMI)	OPT
Start azimuth; Enter 0, 8 ... 4088 (ACP)	OPT
Stop azimuth; Enter 0, 8 ... 4088 (ACP)	OPT

08	SITE QUALITY / CONFIDENCE FILTER	VALUE
Site quality level 0 confidence level 0 ; Enter Y/N		N
Site quality level 0 confidence level 1 ; Enter Y/N		N
Site quality level 0 confidence level 2 ; Enter Y/N		N
Site quality level 0 confidence level 3 ; Enter Y/N		N
Site quality level 0 confidence level 4 ; Enter Y/N		N
Site quality level 0 confidence level 5 ; Enter Y/N		N
Site quality level 1 confidence level 0 ; Enter Y/N		Y
Site quality level 1 confidence level 1 ; Enter Y/N		Y
Site quality level 1 confidence level 2 ; Enter Y/N		Y
Site quality level 1 confidence level 3 ; Enter Y/N		Y
Site quality level 1 confidence level 4 ; Enter Y/N		Y
Site quality level 1 confidence level 5 ; Enter Y/N		Y
Site quality level 2 confidence level 0 ; Enter Y/N		Y
Site quality level 2 confidence level 1 ; Enter Y/N		Y
Site quality level 2 confidence level 2 ; Enter Y/N		Y
Site quality level 2 confidence level 3 ; Enter Y/N		Y
Site quality level 2 confidence level 4 ; Enter Y/N		Y
Site quality level 2 confidence level 5 ; Enter Y/N		Y
Site quality level 3 confidence level 0 ; Enter Y/N		Y
Site quality level 3 confidence level 1 ; Enter Y/N		Y
Site quality level 3 confidence level 2 ; Enter Y/N		Y
Site quality level 3 confidence level 3 ; Enter Y/N		Y
Site quality level 3 confidence level 4 ; Enter Y/N		Y
Site quality level 3 confidence level 5 ; Enter Y/N		Y

	DISPLAY QUALITY / CONFIDENCE FILTER	VALUE
09	Display quality level 0 confidence level 0 ; Enter Y/N	N
	Display quality level 0 confidence level 1 ; Enter Y/N	N
	Display quality level 0 confidence level 2 ; Enter Y/N	N
	Display quality level 0 confidence level 3 ; Enter Y/N	N
	Display quality level 0 confidence level 4 ; Enter Y/N	N
	Display quality level 0 confidence level 5 ; Enter Y/N	N
	Display quality level 1 confidence level 0 ; Enter Y/N	N
	Display quality level 1 confidence level 1 ; Enter Y/N	N
	Display quality level 1 confidence level 2 ; Enter Y/N	N
	Display quality level 1 confidence level 3 ; Enter Y/N	N
	Display quality level 1 confidence level 4 ; Enter Y/N	N
	Display quality level 1 confidence level 5 ; Enter Y/N	N
	Display quality level 2 confidence level 0 ; Enter Y/N	N
	Display quality level 2 confidence level 1 ; Enter Y/N	N
	Display quality level 2 confidence level 2 ; Enter Y/N	N
	Display quality level 2 confidence level 3 ; Enter Y/N	N
	Display quality level 2 confidence level 4 ; Enter Y/N	N
	Display quality level 2 confidence level 5 ; Enter Y/N	N
	Display quality level 3 confidence level 0 ; Enter Y/N	N
	Display quality level 3 confidence level 1 ; Enter Y/N	N
	Display quality level 3 confidence level 2 ; Enter Y/N	N
	Display quality level 3 confidence level 3 ; Enter Y/N	N
	Display quality level 3 confidence level 4 ; Enter Y/N	N
	Display quality level 3 confidence level 5 ; Enter Y/N	N
10	CD QUALITY / CONFIDENCE FILTER	VALUE
	CD quality level 0 confidence level 0 ; Enter Y/N	Y
	CD quality level 0 confidence level 1 ; Enter Y/N	Y
	CD quality level 0 confidence level 2 ; Enter Y/N	Y
	CD quality level 0 confidence level 3 ; Enter Y/N	Y
	CD quality level 0 confidence level 4 ; Enter Y/N	Y
	CD quality level 0 confidence level 5 ; Enter Y/N	Y
	CD quality level 1 confidence level 0 ; Enter Y/N	Y
	CD quality level 1 confidence level 1 ; Enter Y/N	Y
	CD quality level 1 confidence level 2 ; Enter Y/N	Y
	CD quality level 1 confidence level 3 ; Enter Y/N	Y
	CD quality level 1 confidence level 4 ; Enter Y/N	Y
	CD quality level 1 confidence level 5 ; Enter Y/N	Y
	CD quality level 2 confidence level 0 ; Enter Y/N	Y
	CD quality level 2 confidence level 1 ; Enter Y/N	Y
	CD quality level 2 confidence level 2 ; Enter Y/N	Y
	CD quality level 2 confidence level 3 ; Enter Y/N	Y
	CD quality level 2 confidence level 4 ; Enter Y/N	Y
	CD quality level 2 confidence level 5 ; Enter Y/N	Y
	CD quality level 3 confidence level 0 ; Enter Y/N	Y
	CD quality level 3 confidence level 1 ; Enter Y/N	Y
	CD quality level 3 confidence level 2 ; Enter Y/N	Y
	CD quality level 3 confidence level 3 ; Enter Y/N	Y
	CD quality level 3 confidence level 4 ; Enter Y/N	Y
	CD quality level 3 confidence level 5 ; Enter Y/N	Y

	SRAP QUALITY / CONFIDENCE FILTER	VALUE
11	SRAP quality level 0 confidence level 0 ; Enter Y/N	N
	SRAP quality level 0 confidence level 1 ; Enter Y/N	N
	SRAP quality level 0 confidence level 2 ; Enter Y/N	N
	SRAP quality level 0 confidence level 3 ; Enter Y/N	N
	SRAP quality level 0 confidence level 4 ; Enter Y/N	N
	SRAP quality level 0 confidence level 5 ; Enter Y/N	N
	SRAP quality level 1 confidence level 0 ; Enter Y/N	Y
	SRAP quality level 1 confidence level 1 ; Enter Y/N	Y
	SRAP quality level 1 confidence level 2 ; Enter Y/N	Y
	SRAP quality level 1 confidence level 3 ; Enter Y/N	Y
	SRAP quality level 1 confidence level 4 ; Enter Y/N	Y
	SRAP quality level 1 confidence level 5 ; Enter Y/N	Y
	SRAP quality level 2 confidence level 0 ; Enter Y/N	Y
	SRAP quality level 2 confidence level 1 ; Enter Y/N	Y
	SRAP quality level 2 confidence level 2 ; Enter Y/N	Y
	SRAP quality level 2 confidence level 3 ; Enter Y/N	Y
	SRAP quality level 2 confidence level 4 ; Enter Y/N	Y
	SRAP quality level 2 confidence level 5 ; Enter Y/N	Y
	SRAP quality level 3 confidence level 0 ; Enter Y/N	Y
	SRAP quality level 3 confidence level 1 ; Enter Y/N	Y
	SRAP quality level 3 confidence level 2 ; Enter Y/N	Y
	SRAP quality level 3 confidence level 3 ; Enter Y/N	Y
	SRAP quality level 3 confidence level 4 ; Enter Y/N	Y
	SRAP quality level 3 confidence level 5 ; Enter Y/N	Y
12	BEACON TARGET OFFSET IN RANGE	VALUE
	Beacon target offset in range; Enter 0, 1 ... 3 (/16 NMI)	2
13	ANALOG VIDEO DISPLAY MODE	VALUE
	Analog video display mode; Enter 0, 1 ... 2048 (ACP)	1591
14	ARTS CD AZIMUTH SYNC. DELAY	VALUE
	ARTS CD azimuth sync. delay; Enter 0, 1 ... 1024 (ACP)	64
	ARTS CD Sector Mark Delay for Mode S; Enter 0, 1 ... 1024 (ACP)	320
15	ARTS SRAP AZIMUTH SYNC. DELAY	VALUE
	ARTS SRAP azimuth sync. delay; Enter 0, 1 ... 1024 (ACP)	64
	ARTS SRAP Sector Mark Delay for Mode S; Enter 0, 1 ... 1024 (ACP)	320
16	SCIP SECTOR TOLERANCE	VALUE
	SCIP sector tolerance; Enter 1, 2 ... 32 (sectors)	5
17	BEACON REPLY CODE DELAY	VALUE
	Beacon reply code delay; Enter 0, 1 ... 46 (/16 NMI)	(4) OPT

18	BEACON INTERLACE MODE PATTERN	VALUE
Pattern element 1 ; Enter 2/ 3(3A)/ C/ <space>(null)	(3) OPT	
Pattern element 2 ; Enter 2/ 3(3A)/ C/ <space>(null)	(3) OPT	
Pattern element 3 ; Enter 2/ 3(3A)/ C/ <space>(null)	(C) OPT	
Pattern element 4 ; Enter 2/ 3(3A)/ C/ <space>(null)	(3) OPT	
Pattern element 5 ; Enter 2/ 3(3A)/ C/ <space>(null)	(3) OPT	
Pattern element 6 ; Enter 2/ 3(3A)/ C/ <space>(null)	(C) OPT	
Pattern element 7 ; Enter 2/ 3(3A)/ C/ <space>(null)	(3) OPT	
Pattern element 8 ; Enter 2/ 3(3A)/ C/ <space>(null)	(3) OPT	
Pattern element 9 ; Enter 2/ 3(3A)/ C/ <space>(null)	(C) OPT	
Pattern element 10 ; Enter 2/ 3(3A)/ C/ <space>(null)	(3) OPT	
Pattern element 11 ; Enter 2/ 3(3A)/ C/ <space>(null)	(3) OPT	
Pattern element 12 ; Enter 2/ 3(3A)/ C/ <space>(null)	(C) OPT	
19	SCIP SITE SELECT	VALUE
SCIP site select; Enter L(local)/ R(remote)/ S(second)	OPT	
CD Output Sector Mark Message Type; Enter B(beacon)/ S(search)	(S)	
WARNING: Changes to this parameter will only take effect after the "save" (S) command is entered and the RESET control panel button is pushed.		
20	ARTS SITE SELECT	VALUE
ARTS site select; Enter C(CD)/ S(SRAP)/ B(both)	OPT	
CD Output Format Select; Enter A(ARTS2)/ E(EARTS)/ 9(ASR9)	(9) OPT	
WARNING: Changes to this parameter will only take effect after the "save" (S) command is entered and the RESET control panel button is pushed.		
21	WEATHER MODE SELECT	VALUE
Weather mode select; Enter 1/2	1	
22	TEST DISPLAY SELECT	VALUE
Test display select; Enter Y/N	Y	
23	EMERGENCY CONTROL OVERIDES	VALUE
This entry has been changed from the original parameter.		
WARNING!! Changing any of the following emergency override flags to (Y) will cause the SCIP to ignore the normal source of control input (i.e. CENRAP box or SCC computers), and force corresponding internal information to user defined values. If a given override flag equals (N), the SCIP will display the current value – namely what was sent by another computer, or read from the backplane.		
CENRAP Emergency Override; Enter Y/N	(N) OPT	
CENRAP Timing Only Mode from Hardware; Enter Y/N	(N) OPT	
Data Source Emergency Override; Enter Y/N	(N) OPT	
Systemwide Data Source Select Mode-S; Enter Y/N	(N) OPT	
SRAP Filter Emergency Override; Enter Y/N	(N) OPT	
Systemwide SRAP Output Filter Enable; Enter Y/N	(N) OPT	
24	TIME FROM PRETRIGGER TO T0	VALUE
Time from pretrigger to T0; Enter 70, 71 ... 120 (microseconds)	OPT	

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Appendix 3

25	BEACON REPLY CODE AZIMUTH EXTENT	VALUE
Range 0 to 10 NMI; Enter 1, 2 ... 128 (ACP)	(60)	56 to 80
Range 10 to 20 NMI; Enter 1, 2 ... 128 (ACP)	(50)	38 to 78
Range 20 to 30 NMI; Enter 1, 2 ... 128 (ACP)	(50)	32 to 76
Range 30 to 40 NMI; Enter 1, 2 ... 128 (ACP)	(50)	24 to 74
Range 40 to 50 NMI; Enter 1, 2 ... 128 (ACP)	(50)	22 to 72
Range 50 to 60 NMI; Enter 1, 2 ... 128 (ACP)	(50)	18 to 70
26	ALIGNMENT TARGET ENABLE	VALUE
Alignment target enable; Enter Y/N		Y
27	NUM OF ALIGNMENT TARGETS	VALUE
num of alignment targets; Enter 0, 1 ... 8 (num)		OPT
Alignment target # 1		
Azimuth; Enter 0, 1 ... 4095 (ACP)		OPT
Range; Enter 0, 1 ... 960 (1/16 NMI)		OPT
Alignment target # 2		
Azimuth; Enter 0, 1 ... 4095 (ACP)		OPT
Range; Enter 0, 1 ... 960 (1/16 NMI)		OPT
Alignment target # 3		
Azimuth; Enter 0, 1 ... 4095 (ACP)		OPT
Range; Enter 0, 1 ... 960 (1/16 NMI)		OPT
Alignment target # 4		
Azimuth; Enter 0, 1 ... 4095 (ACP)		OPT
Range; Enter 0, 1 ... 960 (1/16 NMI)		OPT
Alignment target # 5		
Azimuth; Enter 0, 1 ... 4095 (ACP)		OPT
Range; Enter 0, 1 ... 960 (1/16 NMI)		OPT
Alignment target # 6		
Azimuth; Enter 0, 1 ... 4095 (ACP)		OPT
Range; Enter 0, 1 ... 960 (1/16 NMI)		OPT
Alignment target # 7		
Azimuth; Enter 0, 1 ... 4095 (ACP)		OPT
Range; Enter 0, 1 ... 960 (1/16 NMI)		OPT
Alignment target # 8		
Azimuth; Enter 0, 1 ... 4095 (ACP)		OPT
Range; Enter 0, 1 ... 960 (1/16 NMI)		OPT
28	BRIEF POWER UP FIT MODE	VALUE
Brief Power Up FIT Mode; Enter Y/N		OPT

WARNING: Changes to this parameter will only take effect after the "save" (S) command is entered and the RESET control panel button is pushed.

29	EARTS RTQC Target Azimuth & Range:	VALUE
Search RTQC Azimuth; Enter 0, 1 ... 4095 (ACP)	(0) OPT	
Search RTQC Range; Enter 0, 1 ... 960 (1/16 NMI)	(912) OPT	
Beacon RTQC Azimuth; Enter 0, 1 ... 4095 (ACP)	(2048) OPT	
Beacon RTQC Range; Enter 0, 1 ... 960 (1/16 NMI)	(912) OPT	
30	EARTS CHANNEL SELECT	VALUE
EARTS Channel Select 0 ; Enter Y/N	(Y) OPT	
EARTS Channel Select 1 ; Enter Y/N	(Y) OPT	
EARTS Channel Select 2 ; Enter Y/N	(Y) OPT	
31	EARTS Run Length Matrix	VALUE
Confidence Level 0 Quality Level 0 ; Enter 0, 1 ... 7 (Run Length)	(0) OPT	
Confidence Level 0 Quality Level 1 ; Enter 0, 1 ... 7 (Run Length)	(0) OPT	
Confidence Level 0 Quality Level 2 ; Enter 0, 1 ... 7 (Run Length)	(0) OPT	
Confidence Level 0 Quality Level 3 ; Enter 0, 1 ... 7 (Run Length)	(0) OPT	
Confidence Level 1 Quality Level 0 ; Enter 0, 1 ... 7 (Run Length)	(1) OPT	
Confidence Level 1 Quality Level 1 ; Enter 0, 1 ... 7 (Run Length)	(2) OPT	
Confidence Level 1 Quality Level 2 ; Enter 0, 1 ... 7 (Run Length)	(3) OPT	
Confidence Level 1 Quality Level 3 ; Enter 0, 1 ... 7 (Run Length)	(4) OPT	
Confidence Level 2 Quality Level 0 ; Enter 0, 1 ... 7 (Run Length)	(1) OPT	
Confidence Level 2 Quality Level 1 ; Enter 0, 1 ... 7 (Run Length)	(0) OPT	
Confidence Level 2 Quality Level 2 ; Enter 0, 1 ... 7 (Run Length)	(0) OPT	
Confidence Level 2 Quality Level 3 ; Enter 0, 1 ... 7 (Run Length)	(0) OPT	
Confidence Level 3 Quality Level 0 ; Enter 0, 1 ... 7 (Run Length)	(3) OPT	
Confidence Level 3 Quality Level 1 ; Enter 0, 1 ... 7 (Run Length)	(5) OPT	
Confidence Level 3 Quality Level 2 ; Enter 0, 1 ... 7 (Run Length)	(6) OPT	
Confidence Level 3 Quality Level 3 ; Enter 0, 1 ... 7 (Run Length)	(7) OPT	
Confidence Level 4 Quality Level 0 ; Enter 0, 1 ... 7 (Run Length)	(3) OPT	
Confidence Level 4 Quality Level 1 ; Enter 0, 1 ... 7 (Run Length)	(4) OPT	
Confidence Level 4 Quality Level 2 ; Enter 0, 1 ... 7 (Run Length)	(5) OPT	
Confidence Level 4 Quality Level 3 ; Enter 0, 1 ... 7 (Run Length)	(6) OPT	
Confidence Level 5 Quality Level 0 ; Enter 0, 1 ... 7 (Run Length)	(4) OPT	
Confidence Level 5 Quality Level 1 ; Enter 0, 1 ... 7 (Run Length)	(5) OPT	
Confidence Level 5 Quality Level 2 ; Enter 0, 1 ... 7 (Run Length)	(6) OPT	
Confidence Level 5 Quality Level 3 ; Enter 0, 1 ... 7 (Run Length)	(7) OPT	
32	WEATHER RANGE RESOLUTION	VALUE
EARTS Weather Range resolution ; Enter 1, 2 ... 30 (1/2 NM)	(5) OPT	
33	RTQC MESSAGE DELAY IN MODE-S	VALUE
EARTS RTQC Message Delay (IBI=0) in Mode-S; Enter 0, 1 ... 1024 (ACP)	(256) OPT	
34	SRAP STATUS MESSAGE SELECT	VALUE
Enhanced SRAP Status Message Format; Enter Y/N	(Y) OPT	

WARNING! Changes to this parameter may be visible to the ARTS IIIA and IIIE systems. If the enhanced SRAP alarms message format is not supported by those computer(s), errors will be declared. ALSO: Changes to this parameter only take effect after the "Save" (S) key is hit, and the RESET button pushed.

APPENDIX 4. TARGET CHANNEL PROGRAMMABLE ALARM THRESHOLDS/PROGRAMMABLE ALARM FILTERS

Target Channel PAT Values

CHANGE ENTRY	TEST#	CURRENT		SCALE FACTOR	MIN	MAX		
		LOW	HIGH					
*	1. WSP	2C0	MDS- HI BEAM	-1120 [-1090]	-1070 [-1040]	0.1 dBm	-1200	-1000
*	2. WSP	2C1	MDS - LO BEAM	-1120 [-1090]	-1070 [-1040]	0.1 dBm	-1200	-1000
*	3. WSP	2C2	Noise Fig - HI BEAM	0	50	0.1 dB	0	100
*	4. WSP	2C3	Noise Fig - LO BEAM	30	80	0.1 dB	0	100
*	5. WSP	1A1	XMTR Output	0	56	OPT OPT	1 Watt	0 2047
	6.	1A2	VSWR	90	150	0.01	0	255
	7.	1A3	Pulse-width	90	110	0.01 uSec	0	255
	8.	1A4	Filament Current	OPT	OPT	0.1 Amps	0	500
	9.	1A5	Focus Coil Current	OPT	OPT	0.1 Amps	0	500
	10.	1A6	Klystron Voltage	602	828	0.1 KV	0	1000
	11.	1A9	Klystron Current	OPT	961	0.1 mAmps	0	1000
	12.	1AA	PFN Voltage	500	621	10 V	0	1000
	13.	1AB	Ion Pump Current	0	219	0.1 uAmps	0	1000

Transmitter PAFs

	N	M
1. 190 Mod Switch Maint	1	1
2. 192 Post Ch. Reg Maint	1	1
3. 194 XMTR Power Low	1	1

Target Receiver PAFs

	N	M		N	M
1. 202 I/Q Phase Servo	2	3	10. 216 Hi-Beam STC Degrade	5	5
2. 204 I/Q Gain Servo	2	3	11. 217 Hi-Beam STC Fail	2	3
3. 206 DC Bias (Q) Servo	2	3	12. 218 Lo-Beam STC Degrade	5	5
4. 208 DC Bias (I) Servo	2	3	13. 219 Lo-Beam STC Fail	2	3
5. 210 AGC Servo	2	3	14. 220 A/D Conv (3-pt)	2	3
			15. 225 HB RF TTG Ref Degr	5	5
6. 212 MDS Hi-Beam Degr	2	3	16. 226 HB RF TTG Ref Fai	2	3
7. 213 MDS Hi-Beam Fail	2	3			
* WSP	[4]	[4]	17. 227 LB RF TTG Ref Degr	5	5
			18. 228 LB RF TTG Ref Fail	2	3
8. 214 MDS Lo-Beam Degr	2	3			
9. 215 MDS Lo-Beam Fail	2	3	19. 2B1 +100V Power Supply	1	1
			20. 2B2 + 15V Power Supply	1	1
			21. 2B3 - 15V Power Supply	1	1

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Appendix 4

Target Channel RFG

	N	M
1. 302 COHO Mod Flt - OL	1	1
2. 303 COHO Mod Flt - SB	1	1
3. 304 STALO Module Fault	1	1
4. 306 Xmit Module Flt	1	1
5. 308 RF Test Target Flt	1	1

DSP PAFs

	N	M		N	M
1. 400 R/M Initialization	1	1	13. 414 In. Data Buffer Tst	1	1
2. 401 SBC Instruct. Set	1	1	14. 415 In. Data Buffer Tst	1	1
3. 402 SBC Boot ROM	1	1	15. 416 Filter Arith Unit 1	1	1
4. 403 SBC RAM Address	1	1	16. 417 Filter Arith Unit 2	1	1
5. 404 SBC RAM W/R/Verify	1	1	17. 418 General Math Unit	1	1
6. 405 SBC/RMS Wrapback	1	1	18. 419 Log I/Q Combine	1	1
7. 408 Bus Cycle Timeout	1	1	19. 41C Mean-Level-Thr Test	1	1
8. 40E Input Data Std A	2	2	20. 41D Mean-Level-Thr Test	1	1
9. 40F Input Data Std B	2	2	21. 420 Prim Detect 1	1	1
10. 410 CMT Test A	1	1	22. 422 Prim Detect 2A	1	1
11. 411 CMT Test B	1	1	23. 423 Prim Detect 2B	1	1
12. 412 CMT Test C	1	1			

DSP PATs #2

	N	M		N	M
1. 424 Clutter Map	1	9	9. 442 -15V Power Supply	1	1
2. 426 Clutter Map Ctrl	1	1	10. 444 DSP VSP Check	1	1
3. 429 Filter 1 Ctrl Map	1	9	11. 446 Cabinet Overtemp	1	1
4. 42B 2 Level Wx	1	9	12. 447 Cabinet Blower 1	1	1
5. 42D Geo-Censor Map	1	9	13. 448 Cabinet Blower 2	1	1
6. 430 C&I Form (Wx/Tgt)	1	1	14. 449 Cabinet Blower 3	1	1
7. 432 Prim. Formatter	1	1	15. 44A Prim Det EEPROM	1	1
8. 434 Loss of RTQC	1	1	16. 44B Geocensor Map EEPROM	1	1

PAFs FOR DSP POWER SUPPLY TESTS RUN BY ASP/MI

	N	M
1. 440 +5V Power Supply	1	1
2. 441 +15V Power Supply	1	1

Synchronizer PAFs

	N	M		N	M
1. 501 Radar Livetime	1	1	17. 521 By-Pass XMIT	1	1
2. 502 Xmit Pre-Trigger	1	1	18. 522 COHO RF	1	1
3. 503 PRF Check	1	1	19. 523 XMIT Enable Off	1	1
4. 505 Beacon Rate	1	1	20. 524 RFTTG	1	1
5. 507 CPI-Pair Rate	1	1	21. 533 Sync BCN Activity	1	1
6. 508 CPI-Pair Interrupt	1	1	22. 534 RCVR A/D Interrupt	1	1
7. 509 ARP Interrupt	2	2	23. 540 Logic Anal. Timeout	1	32
8. 50A CPI End	1	1	24. 541 PLL Out-of-Synch	1	1
9. 50B ACP Activity	4	4			
10. 50D CAL Trigger	1	1	25. 576 TXRFDRIVE REL RGPRET	1	1
11. 50E CFAR End	1	1	26. 57A TXMODCHRG REL RGPRET	1	1
12. 511 Sample End	1	1	27. 57C TXMODISRG REL RGPRET	1	1
13. 513 STC Clock	1	1	28. 57F TTGRFGATE REL RGPRET	1	1
14. 514 CAL Clock	1	1			
15. 515 A/D Test Enable	1	1			
16. 516 IF Test Tone	1	1			

Post Processor PAFs

	N	M		N	M
1. 600 BTD Self-Test #1	1	1	17. 62C ASP Program Mem Tst	1	1
2. 601 BTD Self-Test #2	1	1	18. 630 ASP RAM S-T (Lower)	1	1
3. 602 BTD Self-Test #3	1	1	19. 631 ASP RAM S-T (Upper)	1	1
4. 603 BTD Self-Test #4	1	1	20. 632 RTQC Search	2	2
5. 604 BTD Self-Test #5	1	1	21. 638 MIP/RMS Wrapback	3	3
6. 605 BTD Self-Test #6	1	1	22. 63C MIP Bus Wrapback	1	1
7. 606 BTD Self-Test #7	1	1	23. 63F MIP ROM Test	1	1
8. 607 BTD Self-Test #8	1	1	24. 640 MIP RAM Test	1	1
9. 619 CU RAM Self-Test	1	1	25. 644 MIP EEPROM Test	1	1
10. 61C RTQC Beacon	1	1	26. 648 MIP 80186 Instr Set	1	1
11. 61F ASP Alive	1	1	27. 650 CD/ASR Wrapback	1	1
12. 620 ASP CU Self-Test	1	1	28. 654 ADCCP Wrapback	1	1
13. 624 ASP PE Self-Test	1	1	29. 657 Mode-S Transmit Flt	1	1
14. 625 PE RAM Test	1	1	30. 658 Mode-S Activity Chk	1	1
15. 628 ASP ROM Self-Test	1	1	31. 659 Mode-S Receive Flt	1	1
16. 629 ASP MROM/RAM Comp	1	1	32. 680 MIP Initialization	1	1

Post Processor PAFs #2

	N	M
1. 664 + 5V Power Supply	1	1

Antenna PAFs

	N	M		N	M
1. A00 Slow Antenna	2	2	14. A30 Ped. Oil Level Low	1	1
2. A02 APG # 1 Count	1	1	15. A31 Dr Motor 1 Oil Lvl	1	1
3. A03 APG # 2 Count	1	1	16. A32 Dr Motor 2 Oil Lvl	1	1
4. A05 ARP # 1 Fault	2	4	17. A40 +5V Power Supply #1	1	1
5. A06 ARP # 2 Fault	2	4	18. A42 +5V Power Supply #2	1	1
6. A07 APG Sync	1	1	19. A44 +24 V P.S. # 1	1	1
7. A09 Control Status	1	1	20. A46 +24 V P.S. # 2	1	1
8. A10 Dr Mtr 1 Undercur	1	1	21. A52 W/G Compressor Fault	1	1
9. A11 Dr Mtr 1 Clutch	1	1			
10. A12 Dr Mtr 1 Overtemp	1	1			
11. A20 Dr Mtr 2 Undercur	1	1			
12. A21 Dr Mtr 2 Clutch	1	1			
13. A22 Dr Mtr 2 Overtemp	1	1			

Antenna PAFs #2

	N	M
1. A62 Lo-Beam Polarizer	2	3
2. A64 Hi-Beam Polarizer	2	3

ANS 1 and 2 PAFs

	N	M		N	M
1. B01 Link 1 Dsbl/ANS#1	1	1	16. B30 Link 1 Dsbl/ANS#2	1	1
2. B02 Link 2 Dsbl/ANS#1	1	1	17. B31 Link 2 Dsbl/ANS#2	1	1
3. B03 Link 3 Dsbl/ANS#1	1	1	18. B32 Link 3 Dsbl/ANS#2	1	1
4. B04 Link 4 Dsbl/ANS#1	1	1	19. B33 Link 4 Dsbl/ANS#2	2	2
5. B05 Link 5 Dsbl/ANS#1	1	1	20. B34 Link 5 Dsbl/ANS#2	3	3
6. B06 Link 6 Dsbl/ANS#1	1	1	21. B35 Link 6 Dsbl/ANS#2	1	1
7. B07 Link 7 Dsbl/ANS#1	1	1	22. B36 Link 7 Dsbl/ANS#2	1	1
8. B08 Link 8 Dsbl/ANS#1	1	1	23. B37 Link 8 Dsbl/ANS#2	1	1
9. B09 Link 9 Dsbl/ANS#1	1	1	24. B38 Link 9 Dsbl/ANS#2	1	1
10. B0A Link 10 Dsbl/ANS#1	1	1	25. B39 Link 10 Dsbl/ANS#2	1	1
11. B0B ANS #1 I/O Wrap/Con	1	1	26. B40 RMS-MPS Comms Fail	1	1
12. B0C ANS #2 I/O Wrap/Con	1	1			
13. B20 System Comm Fault	1	1			
14. B21 Cab #1 Overtemp	1	1			
15. B22 Cab #2 Overtemp	1	1			

ANS 1 and 2 PAFs #2

	N	M		N	M
1. B23 Remote Cab Overtemp	1	1			

Post Processor Performance PAFs

	N	M		N	M
1. 61B CORR RTQC Alarm	8	8	9. 697 BTD PRT Overload	1	1
2. 690 Interference Alarm	200	255	10. 698 BTD Report Overload	1	1
3. 691 Range Alarm	1	1	11. 699 C&I Pair Overload	1	1
4. 692 Azimuth Alarm	1	1	12. 69A C&I Report Overload	1	1
5. 693 Bcn Mode Trig Alrm	1	1	13. 69B BTM Overload	1	1
6. 694 OP ST BTD Alarm	1	1	14. 69C Tracker Overload	1	1
7. 695 OP ST ASP/MI Alarm	1	1	15. 69D BTD Az VAR Alarm	1	1
8. 696 Delay Alarm	1	1	16. 69E Alarm Register Fail	1	1
			17. 6A0 Beacon Delay Alarm	1	1
			18. 6A1 PAC Flash RAM Fail	1	1
			19. 6A2 BTD Track Full	1	1
			20. 6A3 PAC Alive	1	1

Transmitter PAT Test PAFs

	N	M
1. 1A1 XMTR OUTPUT	1	1
2. 1A2 VSWR	1	1
3. 1A3 PULSE WIDTH	1	1
4. 1A4 FILAMENT CURRENT	1	1
5. 1A5 FOCUS COIL CURRENT	1	1
6. 1A6 KLYSTRON VOLTAGE	1	1
7. 1A9 KLYSTRON CURRENT	1	1
8. 1AA PFN VOLTAGE	3	3
9. 1AB ION PUMP CURRENT	1	1

Receiver PAT Test PAFs

	N	M
1. 2C0 MDS HI-BEAM	1	1
2. 2C1 MDS LO-BEAM	1	1
3. 2C2 NF HI-BEAM	1	1
4. 2C3 NF LO-BEAM	1	1

APPENDIX 5. WEATHER CHANNEL PROGRAMMABLE ALARM THRESHOLDS/PROGRAMMABLE ALARM FILTERS

Weather Channel PAT Values

CHANGE ENTRY	TEST#	CURRENT		SCALE FACTOR	MIN	MAX
		LOW	HIGH			
1.	92D	6Wx MDS	-1120	0.1	-1200	-1000
2.	92E	6Wx Noise Figure	0	0.1	0	100

Weather Channel PAFs

		N	M			N	M		
1.	902	Wx I/Q Phase Servo	2	3	12.	920	Wx A/D Conv (3-pt)	2	3
2.	904	Wx I/Q Gain Servo	2	3					
3.	906	Wx DC Bias(Q) Servo	2	3	13.	980	Wx R/M Initia	1	1
4.	908	Wx DC Bias(I) Servo	2	3	14.	981	Wx Mon Instr Set	1	1
5.	910	Wx AGC Servo	2	3	15.	982	Wx Mon Boot ROM	1	1
				16.	983	Wx Mon RAM Addr	1	1	
6.	912	Wx MDS Degrade	2	3	17.	984	Wx Mon W/R/Verify	1	1
7.	914	Wx MDS Fail	2	3					
8.	916	Wx STC Degrade	5	5	18.	985	Wx Mon/RMS Wrapback	1	1
9.	917	Wx STC Fail	2	3					
				19.	988	Bus Cycle Timeout	1	1	
10.	918	Wx RF TTG Ref Degr	5	5	20.	989	6 Lvl Map/Thresh A	1	1
11.	919	Wx RF TTG Ref Fail	2	3	21.	98A	6 Lvl Map/Thresh B	1	1

Weather Channel PAFs #2

		N	M			N	M		
1.	98F	Wx S&C Initial	1	1	15.	99F	CDM/Threshold VSP	1	1
2.	990	S&C Timeout	1	1					
3.	991	S&C Instruct. Set	1	1	16.	9A1	IDB Test A(CIR POL)	1	1
4.	992	S&C Boot ROM	1	1	17.	9A2	IDB Test B(CIR POL)	1	1
5.	993	S&C RAM Address	1	1					
6.	994	S&C RAM W/R/Verify	1	1	18.	9A3	Filter Arith Unit	1	1
7.	995	S&C/RMS Wrapback	2	2	19.	9A4	Log I/Q Combine	1	1
8.	996	6 Lvl Detect	1	1	20.	9A5	6 Level Detect A	1	1
9.	998	SBC Data Memory	1	10	21.	9AF	Wx Data Activity Ch	1	1
10.	99A	IDB Test A(LIN POL)	2	2					
11.	99B	IDB Test B(LIN POL)	2	2					
12.	99C	CMT Interf. Test A	1	1					
13.	99D	CMT Interf. Test B	1	1					
14.	99E	CMT Interf. Test C	1	1					

Weather Channel PAFs #3

		N	M			N	M		
1.	9C1	Radar Livetime	1	1	9.	9CB	Cal Trigger	1	1
2.	9C2	Pre-Xmit Trigger	1	1	10.	9CC	CFAR End	1	1
				11.	9CD	Sample End	1	1	
3.	9C3	PRF Check	1	1					
				12.	9CF	STC Clock Low	1	1	
4.	9C5	CPI Pair Rate	1	1	13.	9D0	Cal Clock	1	1
5.	9C6	CPI Pair Interrupt	1	1					
				14.	9D1	A/D Test Enable	1	1	
6.	9C7	ARP Interrupt	2	2					
7.	9C8	CPI End	1	1	15.	9D3	RCVR A/D Interrupt	1	1
8.	9C9	ACP Activity	4	4	16.	9D4	Logic Anal. Timeout	1	32
				17.	9D7	Wx PLLOOFSYNC	1	1	

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Appendix 5

PAFs for 6Wx Tests Done at System Control

	N	M
1. 930 +100V Power Supply	1	1
2. 932 + 15V Power Supply	1	1
3. 934 - 15V Power Supply	1	1
4. 9B1 + 5 V Power Supply	1	1
5. 9B2 +15 V Power Supply	1	1
6. 9B3 -15 V Power Supply	1	1
7. 9B4 Wx Cab Overtemp	1	1
8. 9B5 Wx Cab Blower #1	1	1
9. 9B6 Wx Cab Blower #2	1	1
10. 9B7 Wx Cab Blower #3	1	1

Weather PAT Test PAFs

	N	M
1. 92D Wx MDS	1	1
2. 92E Wx NF	1	1

SCIP PAFs

	N	M		N	M
1. 741 + 5 V P.S. (LOC)	1	1	11. 751 +55 V P.S. (REM B)	1	1
2. 742 -15 V P.S. (LOC)	1	1	12. 755 + 5 V P.S. (REM B)	1	1
3. 743 +15 V P.S. (LOC)	1	1			
4. 744 +24 V P.S. (LOC)	1	1	13. 756 - 5 V P.S. (REM B)	1	1
	1	1	14. 757 + 5 V P.S. (D.A. B)	1	1
5. 745 + 5 V P.S. (REM A)	1	1	15. 758 +15 V P.S. (REM B)	1	1
6. 746 - 5 V P.S. (REM A)	1	1	16. 759 +24 V P.S. (REM B)	1	1
7. 747 + 5 V P.S. (D.A. A)	1	1			
8. 748 +15 V P.S. (REM A)	1	1	17. 760 Rem. Cab. Overtemp	1	1
9. 749 +24 V P.S. (REM A)	1	1	18. 788 RSCIPA Init	1	1
10. 750 -55 V P.S. (REM A)	1	1	19. 789 RSCIPB Init	1	1

System Control PAFs

	N	M		N	M
1. 800 SC Activity Check	2	3	14. 841 Loc SBC RAM Address	1	1
2. 801 RMS-SCC Timeout	1	1	15. 844 Loc SBC Instr Set	1	1
3. 802 NOVRAM Sanity Check	1	1	16. 845 Loc SBC Boot ROM	1	1
4. 803 NOVRAM Check	1	1	17. 846 Loc SBC RAM W/R/V	1	1
			18. 848 Rem SBC Instr Set	1	1
5. 805 Loc SCC - PP A I/F	1	1	19. 849 Rem SBC Boot ROM	1	1
6. 806 Loc SCC - PP B I/F	1	1	20. 850 Rem SBC RAM W/R/V	1	1
7. 807 Loc SCC - S&C I/F	1	1	21. 851 Rem SBC RAM Address	1	1
8. 809 Loc SCC - WSP I/F	1	1			
			22. 861 No CPC Msg Rcvd	2	3
9. 818 SC I/O Activity Ch	1	1			
10. 81C SC I/O Parity Ch	1	1	23. 865 RSCC-RSCIPA Wrapbk	1	1
11. 823 SC Data Mem Test	1	1	24. 866 RSCC-RSCIPB Wrapbk	1	1
12. 839 - 5 V P.S. A (Rem)	1	1	25. 880 LSCC Initialization	1	1
13. 840 - 5 V P.S. B (Rem)	1	1	26. 881 RSCC Initialization	1	1

RMS PAFs #1

	N	M		N	M
1. C07 I/O Wrap - DSP A	1	1	11. C50 Power Meter Fail	1	1
2. C08 I/O Wrap - DSP B	1	1	12. C51 Spectrum Analyzer	1	1
3. C09 I/O Wrap - Wx/Mon	1	1			
4. C0A I/O Wrap - Sys Ctl	1	1			
5. C20 + 5 V Power Supply	1	1			
6. C21 +15 V Power Supply	1	1			
7. C30 Cabinet Overtemp	1	1			
8. C31 Cabinet Blower #1	1	1			
9. C32 Cabinet Blower #2	1	1			
10. C40 RMS Fail	1	1			

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SYSTEM SUPPORT DIRECTIVE (SSD)

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SSM-ASR9-001	04/23/99	ARSR-9 SERIAL INTERFACE SYSTEM
SSM-ASR9-002	02/06/98	TRANSMITTER POWER INTERRUPT AND BLOWER MOTOR FUSE
SSM-ASR9-003	10/19/99	REMOVAL OF CIRCUIT BREAKERS FROM MODEM RACK
SSM-ASR9-004	03/13/98	UPGRADE MODE-S INTERFACE SUPPORT
SSM-ASR9-005	04/01/99	PROCESSOR AUGMENTATION CARD PHASE I
SSM-ASR9-006	04/29/98	ASR-9 REMOTE SCIP CIRCUIT BREAKER WIRING CONNECTION
SSM-ASR9-007	06/07/99	ALTERNATE DUAL REDUNDANT MODIFICATION
SSM-ASR9-008	08/02/99	MUFFIN FAN REPLACEMENT
SSM-ASR9-009	TBD	PROCESSOR AUGMENTATION CARD PHASE II
SSM-ASR9-010	CANCELLED	ASR-9 UPDATES
SSM-ASR9-011	03/26/03	SOFTWARE SUPPORT FOR THE WEATHER SYSTEMS PROCESSOR
SSM-ASR9-012	06/19/03	WEATHER SYSTEMS PROCESSOR INTERFACE TO THE ASR-9
SSM-ASR9-013	06/05/01	ASR-9 SERIAL INTERFACE SYSTEM (ASIS) PHASE II
SSM-ASR9-014	05/20/04	ANOMALOUS PROPAGATION (AP) FILTER
SSM-ASR9-015	TBD	UPDATE PROCOMM PLUS SCRIPTS

SYSTEM SUPPORT MODIFICATIONS (SSM)

<u>Document Number</u>	<u>Date Issued</u>	<u>Title</u>
SSM-ASR9-016	07/14/03	ASR-9 SERIAL INTERFACE SYSTEM (ASIS) PHASE II DUAL BOARD

SYSTEM TECHNICAL RELEASES (STR)

<u>Document Number</u>	<u>Date Issued</u>	<u>Title</u>
STR-ASR9-001	02/06/98	DELIVERY OF AIRPORT SURVEILLANCE RADAR-9 PROCOMM SOFTWARE UPDATE
STR-ASR9-002	12/29/98	DELIVERY OF AIRPORT SURVEILLANCE RADAR-9 PROCOMM SOFTWARE UPDATE VERSION 5.0
STR-ASR9-003	11/29/99	DELIVERY OF AIRPORT SURVEILLANCE RADAR-9 SOFTWARE UPDATE VERSION 6.0
STR-ASR9-004	12/15/99	ASR-9 VARIABLE SITE PARAMETERS AND PROGRAMMABLE ALARM THRESHOLD/FILTER BASELINE
STR-ASR9-004A	06/20/01	ASR-9 VARIABLE SITE PARAMETERS AND PROGRAMMABLE ALARM THRESHOLD BASELINE UPDATES

SYSTEM DOCUMENTATION RELEASES (SDR)

<u>Document Number</u>	<u>Date Issued</u>	<u>Title</u>
SDR-ASR9-001	CANCELLED	BY SDR-ASR9-002
SDR-ASR9-002	CANCELLED	BY SDR-ASR9-003
SDR-ASR9-003	05/09/02	ASR-9 TECHNICAL INSTRUCTION BOOKS UPDATE AND REISSUE OF ASR- 9 TI CD ROM
SDR-ASR9-004	09/02/03	DELIVERY OF THE AIRPORT SURVEILLANCE RADAR-9 OPTIMIZATION PROCEDURES
SDR-ASR9-005	07/12/04	UPDATE TO STR-ASR9-004A

SYSTEM DOCUMENTATION RELEASES (SDR)

<u>Document Number</u>	<u>Date Issued</u>	<u>Title</u>
SDR-ASR9-006	01/23/04	UPDATE TO SSM-ASR9-012 OMIT INCORPORATION OF TI 6310.28 PAGE CHANGES
SDR-ASR9-007	TBD	UPDATE TO TI 6310.28
SDR-ASR9-008	05/25/04	UPDATE TO EEM 6310.18, CHG. 19, CHAP. 16